

Iraq Reports 13 Bomb Attacks **On Iran in a 'Day of Revenge'**

aid its planes bombed 13 oil, ininstrial and other targets inside

Principal intent of actives Brooke Mint a consistence and contracts quincipal to the her nevenge" for Iranian attacks on Kuwait. though a draw we fran said that 75 civilians had in malling and the tacks and that it had shot down two

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SPORTS

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Page 7.

been killed or wounded in the at- Doroud, Dezful and Khorramabad Iraqi jet fighters. It promised to retainte swiftly for the raids. taliste swiftly for the raids. The flare-up in the Gulf cast a Dezful, oil loading platforms in the hadow over a United Nations Kanou area in southern Iran, an oil shadow over a United Nations peace mission. The UN secretarygeneral, Javier Pérez de Cuellar, who is to visit both nations in an

effort to end the 7-year war, will errive in Tehran on Friday night. Iraq's official news agency, INA, Shahahad. monitored in Nicosia, quoted a military communique as having to "Iranian attacks on Kuwait's

By David B. Ottaway

tary defeat by Chadian forces this

year, according to U.S. officials.

Both State Department and Pen-

tagon officials said Tuesday that the United States was monitoring

closely the escalation of fighting

that has spilled over into southern

Kiosk

Soviet Star Wars

WASHINGTON (AFP) -

A key U.S. arms control ad-viser, Edward L. Rowny, ac-cused the Soviet Union on Wednesday, of developing technology to sttack ballistic

missiles in space while hold-

ing up talks on long-range nu-

clear weapons with demands that Washington abandon its

space-based Strategic De-fense Initiative, or "Star

He said the Soviet space lases

program would cost \$1 billion

and employ about 10,000 sci-

Americans who like the

are expected to be opened to

scholars this month. Page 2.

I The U.S. airline industry is

raising faces at an unusually

E Lori McNeil upset Chris Event in the quarterfinals of

the U.S. Open tennis champi-

I British Telecom's chair-

man, Sir George Jefferson, said he will resign next

TechnologyCounterly

The global ozone debate, su-

perconductor competition

and computer sales to the So-

viet Union are among the is-

sues in TechnologyQuarterly.

Page

BUSINESS/FINANCE

Page 2.

Page 23.

17.

entists and engineers.

GENERAL NEWS

U.S. Aide Sees

the Research Bill the have been the worst Libyan mili-

commercial and oil lanes and the sugar factory in Khane.

U.S. Considers Request

From Chad for Missiles

Compiled by Our Staff From Dispatcher firing of missiles into Knwaiti terri-MANAMA, Bahrain - Iraq tory."

Kuwait has said that Iran fired a to underscore the bonds of blood, surface-to-surface missile at the religion, history and destiny be-Iran on Wednesday in a "day of Kuwaiti coast on Friday. There tween Iraq and Kuwait and as a salute from Iraq." were no reported casualties.

The communiqué said the raid

were launched in a "day of revenge

It said Iraq would retaliate for Tehran radio said civilian areas any Iranian attacks on Kuwait, had been bombed in raids on Arak, through which much of Iraq's seabome supplies are routed. Iraq's in southwestern and western Iran. ports have been closed since soon The Iraqi communiqué said the after the war broke out in September 1980.

Iran's official news agen IRNA, carried a warning by Iran's pumping station in Pagi Mnlk, an War Information Headquarters ad-vising Iraqis to evacuate strategic engineering plant in Arak, a sugar factory and a cement plant cast of areas "so they will not be hurt dur-Bakhtaran, a cement factory in ing Iranian retaliatory operations, Doroud and a power plant east of which will start within the next few hours with full intensity." It said other targets were fac-

Iraq admitted in a com tories and fuel depots around Wednesday night that it had lost one plane during the raids. It said its planes carried out 122 sorties Khorramabad, communications centers in Karand and Dam and a uring the day.

Iran also said an Iraqi jet hau been shot down during Tuesday night's attacks on two "naval tar-gets" near Iran's big Kharg Island oil terminal in the northern Gulf. The Iraqi attack ended a three-day

Libya. They indicated that addi-In Washington, the United States criticized the Iraqi attacks and appealed to both sides to stop

Washington Part Service though U.S. energency aid might be WASHINGTON — The Reagan forthcoming, including Stingers, if dministration is considering a the situation warrants it. Chadian government request for The administration already has U.S.-made Stinger anti-aircraft sent \$32 million in military assis-The administration already has A State Department spokesman aid Mr. Perez de Cuellar's visits to missiles following what appears to tance to Chad this year and has Tehran and Baghdad this week provided Chad's army with Redeye should be the center of attention. anti-aircraft missiles. U.S. military The U.S. navy secretary, James aid to Chad originally was budget-H. Webb Jr., said that the assised for \$5 million for this fiscal year. tance of other nations in escorting President Hissène Habré of ships safely through the Gulf had largely resolved his early reserva-Chad first asked for the Stingers

See GULF, Page 6

during a visit to Washington in June, which included a meeting with President Ronald Reagan. Mr. Reagan assured the him of U.S. backing for his efforts to drive Libyan troops out of the disputed Ao-ZOU SUID.

The Pentagon spokesman, Robert B. Sims, noted Tuesday that there was speculation that the Stinger was under consideration for Chad, but said it would be "inappropriate" for him to discuss any specific hardware." However, other administration sources said the Sunger was being considered.

The sources also said that a Hawk surface-to-air missile used Sunday by French forces to shoot down a Libyan Tupolev-22 bomber over Ndjamena was not provided to Chad by the United States but had been sold earlier to France. Meanwhile, administration offi-

sought Tuesday to play of

Corazon C. Aquino walking to her palace gnest house in Manila after her cabinet resigned.

Danish Parliament in a Deadlock

taxes and tighter immigration con-

The complexity of Denmark's party with at least 2 percent of the vote gets a seat in the 179-scat parliament. Thus, it is almost impossible for a party to win a clear major-

Sometimes, multiparty coalitions win clear majorities and the new government forms quickly, as happened with Mr. Schluter's fourparty coalition in 1984. But when the election produces a "doubtful majority," as this one did, the politicians wait for one of the party leaders to patch together a new coalition that can command a 90-vote majority in the Folketing. The stage for Wednesday's deadlock was set when Mr. Schluter's

Liberals, won only 81 seats. At the same time, a rightist group, the Progress Party, dis-See DANES, Page 6

Cabinet Resigns To Give Aquino 'A Free Hand'

The second major govern

change came when many of her

original cabinet members resigned

Aquino said at the time that she

expected that change to be the last,

since many of the longtime politi-

cians were replaced by experienced

government officials and business

fuse her government with an air of

competence and expertise.

ders who were supposed to in-

Still, the widespread perception

has deepened in Manila in recent weeks that the government lacks direction and spends most of its

time hurching from crisis to crisis.

erful cabinet member, Jaime Fer-

rer, the local government secretary,

was assassinated amid growing

fears that violent crime was spiral-

ing out of control. Less than three

weeks later, leftist-inspired general

strikes against higher fuel-oil prices

crippled transportation and slowed

factory output in the country.

cal albatross for Mrs. Aquino. The

military views Mr. Arroyo as a

communist sympathizer because of

his past role defending communists

rights lawyer. Business leaders and

even some of Mr. Arroyo's col-

leagues in the cabinet have criti-

cized him as a poor administrator

responsible for a bottleneck of offi-

Also mentioned for replacement

the special counsel, Teodoro

in court when he was a human

In the course of a month, a pow-

By Keith B. Richburg Washington Post Service

MANILA --- President Corazon C. Aquino's entire 28-member cab- in the spring to run for seats in the inet sabmitted resignatioos new National Assembly. Mrs. Wednesday to give Mrs. Aquino "a free hand" to reshape her embattled administration, after an aborted coup that has underscored serious divisions in the government. Some kind of a high-level shakeup appeared imminent in the 12 days since the coup attempt, as the government has become embroiled in an intense round of bickering

and recrimination. There is now a widespread public perception in the Philippines, after the coup attempt and now the resignations, that after 18 months in power, Mrs. Aquino's government is dangerously adrift with no real agenda for solving mounting problems - particularly a tena-

cious communist insurgency. Still, the mass resignation of the cabinet caught many observers ---and even some cabinet members -by surprise.

change-minded military officers haunched a coup attempt that When I sat down, there was a blank piece of paper in front of me," said the defense minister, Raclaimed 53 three lives and that analysts say they believe came close to fael M. fleto. "My neighbor told toppling the government. Although most of those events me we were going to tender our resignations."

vere not of the government's mak-The government press spokes-man, Teodoro Benigno, who also ing, each successive crisis has brought heightened pressure for a resigned, said: "It was sort of sponrevamping of the government. taneous combustion. Nobody mo-One of the most likely aides to he tivated it, not a single group, Al-most all of us thought of this idea almost at the same time." replaced is the executive secretary, Joker P. Arroyo, whom many in Manila have described as a politi-

Mrs. Aquino has not officially accepted any of the resignations, although analysts said some of her cabinet aides were likely to go. If Mrs. Aquino makes major changes, as expected, it will mark her third cabinet shuffle since com-

An American diplomat said that

in 1982 after a year of negotiations.

Secretary of State George P. Shultz

money that Mr. Cavaco Silva said

minister's Social Democratic Party

became the first to gain a majority

will govern without a coalition

Mr. Cavaco Silva is an economist

brought down by a censure motion.

He said the voters had spoken

clearly that they approve of his

brand of government and of his

plans to overhaul the economy by denationalizing industries, to rely

more on private enterprise and cut

lete farm practices.

has been declining.

interests."

pariner.

ing to power in February 1986 and the second time she has had the changes forced upon her by the mass resignation of the cabinet. After the first mass resignation, November, Mrs. Aquino dismissed Juan Ponce Enrile, who was then the defense minister, and she later accepted the resignations of

Locsin, the president's speecheriter. Mr. Locsin has been roundly criticized here for his conduct durthree ministers whom the military ing the coup attempt, when he went considered either corrupt or too fat to the military's temporary headto the political left. But after raisquarters and appeared to be trying to direct the military operations to ing expectations of a major shakeup, Mrs. Aquino kept her cabinet quash the coup.

Portugal Might Consider

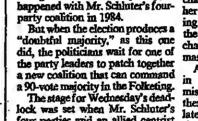
Intl in raids on shipping in the Gulf. Iraq denied that any planes were downed in the Kharg raids. Despite Election Setback, Schluter to Form Government By Howell Raines lead negotiations to resolve the that the parliamentary deadlock chaotic parliamentary situation was caused in part by fringe forces New York Times Service COPENHAGEN -- Prime Min-

caused by the election Tuesday. Mr. Schluter has at least until the ister Poul Schluter, after a surprising setback in general elections, went through the formality of resigning Wednesday, but then im-ment His efforts to do so were part mediately went to work to form a of a uniquely Danish political dranew coalition government,

of polarization and extremism not in keeping with Denmark's tradition of decorum. Two "protest par-ties" won 13 seats, calling for lower

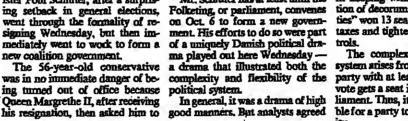
four parties and an allied centrist party, the Radical Left, or Radical largely intact.

a drama that illustrated both the system arises from the fact that any





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delivery in Philadelphia, Mr. Rowny said the Soviet Union reports from Paris that the United States and France were pursuing different policies in Chad. was also modernizing its defense system around Moscow.

Foreign Minister Jean-Bernard Raimond of France was quoted by news agencies as saying that the United States was "perhaps giving Chad advice that is different than ours, but what is best for the Chadians and Africans is the French policy in Africa."

pope and those who don't get ready for his U.S. tour. Page The French have supported international arbitration to settle the Chad-Libya dispute over the Aozou strip. But Charles E. Redman, the UN files on Nazi war crimes

State Department spokesman, reit-erated on Tuesday U.S. support for Chadian efforts to retake the strip, saying that at stake in the current French Company Investigated in Sale fighting was Chad's "territorial in-

fighting was closely and sovereignty." Mr. Rodman denied that the ad-ministration had "advised" the Chadians to "go north," either to Of Military Technology to the Soviets an attack Sannday on the Libyan air base at Matan-as-Sarah, 60 miles (97 kilometers) inside Libya. But he did not condemn the raid, calling it "a limited operation against a base from which it was suffering aggressive Libyan at- has begun an investigation into a

acks." French company's sale of sophisti-U.S. officials previously have cated propeller-milling machines to a Soviet shipyard several years be-fore similar sales were made by a subsidiary of Japan's Tarking or COCOM has saled Export Controls, said that they hope the heavy losses repeatedly inflicted on the Libyan Army by Chad will spark an upris- subsidiary of Japan's Toshiba inst the Libyan leader, Col- Corp. ing against the Libyan leader, Col-onel Moammar Gadhafi, and lead

Toshibe has admitted that a subsidiary, Toshiba Machine Co., in Forest SA, according to Elton Ste-

By Jacques Neher Special to the Herald Tribune

that monitors sales of sensitive

1983 sold the Soviet Union computerized milling machines that were capable of producing quieter submarine propellers. The disclo-sures generated outrage in the U.S.

HART AIMS TO 'HAVE IMPACT' -- Gary Hart in his first television interview since

withdrawing as a Democratic presidential candidate in May. He told ABC's Ted Koppel

that he had 'no plans' to re-enter the '88 race but would "try to have an impact." Page 2.

PARIS --- An international body technology to East bloc countries Congress and have led to calls for a ben on all Toshiba imports by the United States.

eroment anthorities to account for shipments made to the Soviet Union in the mid-1970s by Ratier-

thorities to the inquiry "were not

pherson, spokesman for the U.S. delegation to COCOM. He said the Paris-based CO-

COM wants to know why the Industry Ministry and the Trade Ministry granted export licenses that allowed Ratier-Forest to ship several five-axis milling machin to the Soviet Union, even though

1 Scoll Ap

such sales were likely to have been prohibited by the organization. He said responses by French an-

See EXPORT, Page 6

Scrapping U.S. Base Pact

below the annual \$205 million that By Paul Delancy Portugal had been receiving bo-New York Times Service LISBON - Angry over the level cause of congressional cuts in forof U.S. aid the country is receiving, cign aid. In addition, the official Prime Minister Anibal Cavaco Sil- said, Mr. Cavaco Silva's concern is va has said he would consider that a trade bill pending in Conscrapping a longstanding treaty gress, aimed at Japan, would also that allows the United States to affect imports of Portugal's textiles lease an air base in the Portugueseand steel. . Portugal has been mentioned as owned Azores Islands.

an alternative if U.S. planes and Mr. Cavaco Silva said in an interview that the United States had. troops are evicted from Spain. Nogotiations are scheduled to resume reneged on an accord that provided in Madrid this month over the fufor increased economic aid in reture of American forces in Spain. turn for continued use of Lajes Air Talks have been stalled for months Force Base. because of Spain's insistence that

"Aid was supposed to be increas-ing, but instead it's been declin-ing," he said. "We may ask for an F-16 jets based outside Madrid be removed from the the country. annulment of the agreement next July with 54 percent of the votes, a

year if we don't get more aid." In addition, Mr. Cavaco Silva mandate that seems to have cmboldened him, his critics and diploid, there were "other problems in mats said. the relationship with the United States." He said he was concerned he had noticed a strain of nationalabout a drop in American imports ism in Mr. Cavaco Silva and that he of Portuguese textiles and steel. was "more assertive, perhaps prick-Trade between the two countries ly - he uses the word 'sovereignty' in general has been on the decline a lot." He added that he expected recent years. Imports from the the prime minister would "contin-United States dropped 25 percent between 1985 and 1986 while exue to ask for more than he will get." ports to America fell 15.7 percent. Cavaco Silva mentioned Portu-

A U.S. diplomat said that in the guese national interests several last two years funds had dropped



Thurgood Marshall

Judge Assails Mr. Cavaca Silva was elected in mly with 54 percent of the votes, a Reagan on **Civil Rights**

By Stuart Taylor Jr. New York Times Service

WASHINGTON - Justice Thurgood Marshall of the U.S. Supreme Court, in a highly unusual public criticism of a sitting president, has said in a television inter-In the interview last week, Mr. view that Ronald Reagan ranked at "the bottom" among U.S. presidents in terms of racial justice.

In the interview, to he broadcast "We will defend our interests," Sept. 13 in the United States, Jushe said. "There are some bilateral tice Marshall said of Mr. Reagan: problems between Portugal and the "Honestly, 1 think he's down with U.S., for example, compensation Hoover and that group. Wilson. When we really didn't have a chance." The word "we" was a reffor Lajes. But we will defend our The current treaty was renewed erence to black people.

Justice Marshall, 79, confirmed Tuesday that he made the remarks signed the seven-year accord, in an interview with the columnist which provided \$1.32 billion in aid Carl Rowan. But he did not elaboover the course of the treaty rate on his criticism of Mr. Reagan. The justice, once a leading civil rights lawyer, is the only black ever In the July election, the prime to serve on the court. In his court opinions, he has sharply criticized the administration's positions on of the 250 seats in parliament and civil rights and other issues.

The chief White House spokesman, Mariin Fitzwater, rejected on Wednesday the justice's criticism whose previous government was of Mr. Reagan. The Associated Press reported. "The president has in April after 18 months in office. an outstanding civil rights record. he has supported racial equality in six years of this administration." Mr. Fitzwater said. "And I can't understand his remarks, frankly." The added that Mr. Reagan's actions on civil rights had been intended to strengthen the law]

No sitting member of the Supreme Court in recent memory has publicly criticized a sitting presi-See MARSHALL, Page 6

Small Talk: 6 Dots in Europe Try to Put Things in Perspective 1007 55

By Barry James Inte

tecks."

to his demise.

ANDORRA LA VELLA, Andorra - Six countries that loom modestly on the map of Europe are meeting in Andorra this week to examine the proposition that small really is beautiful.

Once much of Europe was like them - city-states, fieldoms, principalities and dukedoms. Four that survived - Andorra, Liechtenstein, Monato and San Marino - are historical accidents, harmless anachronisms in a world of big-power politics. In the first meeting of its kind, these four Diputians were joined in Andorra by two relative superpowers, Luxenbourg and Malta, for a week of discussions about the virtues and problems of being uny.

Raffacle Giardi, secretary of state for finances and planning in the Republic of San Marino, population 24,000, spelled out the pluses and minuses. "A small country is permitted to use its resources without having to think of preparing for war," he said. "On the other hand, with such a small population, the problem is finding the resources in the first Diace "

The combined populations of the four smallest nations would just about fill a medium-sized European city. This, according to their delesates, gives them a human scale that cludes bigger countries with distant, flockess administrations.

"It is much easier for the ordinary person to influence politics," said Beano Back, head of the national economic department of the Principalily of Lischtenstein, population 27,000.

Mr. Glards said being finance minister in a country where he knew half the people had its advantages and disadvantages. Fellow citizens have no besitation about coming up to him in the street and telling him what they

and the second of the

think of his policies, he said. That can be refreshing, he said, but troublesome, too, if he has just been obliged to do something unpopular.

"People really are happier in a small country," said Luis Mallart, an adviser to Andorra's council of education and culture, which organized the meeting this week. "You have a special relationship with your neighbors, And it is agreeable to be able to discuss affairs with a minister in the street."

Josep Pintat Solans, the head of Andorra's government, managed to meet a sizable proportion of the population Tuesday when he attended mass at the shrine of the Virgin of Meritxell to mark the national holiday, which celebrates the country's existence as a semi-independent entity since 1278.

Andorra, high in the eastern Pyrenees, is jointly ruled by the president of France and the bishop of Urgel in Spain. It has a population of 47,000, of whom fewer than 8,000 are native Andorrans.

As people held hands and danced in a circle to the squealing music of a Sardana band after the mass, Mr. Pintat chatted with ruddy-faced mountain folk, stiffly dressed in their Sunday best, and shopkeepers taking a brief respite from the hordes of shoppers seeking duty-free bargains in the narrow streets of Andorra La Valla.

"Being a citizen of a small country is like being part of a large family," said Joseph Cassar, a delegate from Malta, which is smaller than Andorra 315 square kilometers (120 square miles) compared with 467 square kilometers for Andorra --- but which packs in a population of more than

332,000. "You know everybody," Mr. Cassar said, "so you can get things done.

But you can have some terrible fends as well." One thing that is impressive about the mini-nations is their diversity -

cultural, ethnic and historical. If they have one thing in common, Mr.

. .



Mallart said, it is their vulnerability to pressure by more powerful neighbors and economic circumstances.

an army of 400 men, a population of 369,500 and a relatively large territory of 2,586 square kilometers, has found a degree of security and political clout through its membership in the Enropean Community and the North Atlantic Treaty Organization. "We are always used to being the

See NATIONS, Page 6

Only the Grand Duchy of Luxembourg, a minor military power with

government spending, to change labor laws that almost guarantee workers jobs for life regardless of productivity, and to reform obso-

Protests, Reflecting Turmoil in U.S. Church, Await John Paul

New York Times Service

NEW YORK --- People who admire Pope John Paul II, people who do not, and people who see a chance to make a buck have all geared up for the pope's 10-day cross-country tour, which begins Thursday when he steps off a jetliner called "Shepherd One" at Miami International Airport. For millions, the U.S. tour will be a peak of their

spiritual life, a chance to see the Holy Father, the successor to Peter, the leader of 840 million Roman Catholics around the world.

People angry with the pope are also preparing for his visit.

Women, priests, homosexuals, blacks, Hispanics and other groups of Catholics are planning to let the pope know what is on their minds, through demonstrations or through prepared statements. Several minorities within the church, such as black

and Hispanic Catholics, feel the church needs to be more sensitive to their cultures and give them a larger

The messages all these groups plan to deliver reflect the turnoil within the broader American church. Large numbers of the United States's 52 million Catholics disagree with the church's stands on birth control, homosexuality and the ordination of women, among other issues.

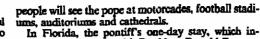
The pope is unquestionably aware of such grievances, but the groups see his visit as a special opportu-nity to dramatize their messages again.

Women's groups have already started demonstrating at the Vatican's diplomatic mission in Washington. These protests will continue in Washington and along the pope's route.

Homosexual rights groups in San Francisco will demonstrate against the Vatican's 1986 statement that homosexuality is "an intrinsic moral evil."

Jews not mollified by the meeting Sept. 1 in Rome between Jewish leaders and the pope are planning protests in Miami and San Francisco.

Meanwhile, entrepreneurs have blanketed the papal route with "I Saw Pope John Panl" T-shirts and buttons, as well as more unusual fare, such as a \$55 lawn sprinkler in the shape of the pontiff ("Let Us Spray") and \$1.79 pope masks, complete with miter. One national organizer estimates that 20 million



cludes a few minutes with President Ronald Reagan, will cost, at a conservative estimate, \$5.5 million, or oearly \$4,000 a minute, church officials say. Archdiocese spokesmen say the only public money involved is for security.

For those making the preparations, the trip is a logistical nightmare, covering 9 cities in 10 days, as well as a quick excursion into Canada's Northwest Territories.

Highways will be turned into giant parking lots. Office workers will be sent home early. Schools will be shut for the day. Field hospitals will be set up by the dozens, water stations by the hundreds and portable toilets by the thousands.

John Paul, in his effort to reassert the orthodoxies of the Roman Catholic Church, has made his views known on most of the issues that have been roiling for years inside the American church. But that does oot deter many of the groups that await bim.

"We believe essentially that the church can change and the pope can change, and that the pope will be open to ideas if we can get his attention," said Sister Jeanine Grammick, a member of the board of the Coalition of American Nuns, who has been urging the church to ordain women as priests.

"If you take the long historical view," she added, you realize that the church has changed over the centuries, but it takes a long time."

The status of women in the church is one of the most widely debated issues among American Catholics. A sizable cumber of American Catholic women, perhaps a majority, say they are displeased that women are excluded from key roles.

The church teaches that Jesus, whose apostles were men, reserved the priesthood for men.

"Women's ordination is the crux of a lot of issues said Sister Jeanine. "We can't be in decision-making in the church because that's closed to you."

Mary E. Hunt, a theologian who is co-director of Women's Alliance for Theology, Ethics and Ritual, argues that because women are excluded from the priesthood, their experience cannot be brought to bear on the church's positions on abortion, birth control

and surrogate motherhood, all of which the church

In San Antonio, Los Angeles and Miami, the pope will be seen by large oumbers of Hispanic Catholics. to win acceptance of traditions including bymns bor-The Reverend Vincente O. Lopez, associate director rowed from black Baptists and a more emotional for Hispanie Affairs of the national bishops' conference, says a primary concern is the success that Pente-costals, evangelicals and other Christian groups are having in proselytizing among the 17 million Hispanic Catholics in the United States.

Ethnic sensitivity is also a dominant issue for the nation's 1.3 million black Catholics. James P. Lyke of Cleveland, an auxiliary bishop, says blacks are trying

rowed from black Baptists and a more emotional worship style. Other concerns of black Catholics include a desire for more black priests and bishops. Among the nation's 11 black bishops, only one, Bishop Joseph L. Howze of Biloxi, Mississippi, heads his own diocese.

As U.S. Air Fares Rise, **Fear of Price-Setting**

By Agis Salpukas New York Times Service Northwest controls 81 percent of flights at Minneapolis-St. Paul In-

NEW YORK - The U.S. aidine ternational and 64 percent at Detroit's Metropolitan Airport. industry, buoyed by a surge of pas-USAir holds 84 percent of the sengers, has put through an onusu-Pittsburgh market and 59 percent al oumber of fare increases while at Baltimore-Washington. tightening restrictions on discount fares this year. People Express, the upstart carri-

Many airlines are increasing ticket prices, instead of lowering er whose unrestricted low fares forced other airlines to keep prices them as they usually have done, after the Labor Day holiday in earlow, was folded into Continental Airlines this year. Many other small carriers founded during the ly September.

early years of deregulation have Government officials, analysts and other experts fear that the top also disappeared. eight carriers are beginning to act For several years, Continental, like a price-setting oligopoly. That which has lower operating costs is the opposite of the ontcome envithan other big airlines, mainly besioned when the airline industry cause of lower labor costs, also of-

was deregulated in 1978. fered low fares. But this year Conti-The large airlines have come to oental has generally supported the increases of other airlines, or initicootrol pricing in major markets in a way that few foresaw when the ated higher fares itself. industry was deregulated, said Eliz-Restrictions on most discount. abeth E. Bailey, dean of Carnegic-Melloo University's Graduate School of Industrial Administration and a former vice chairman of the Civil Aeronautics Board.

lines required that travelers buy the nonrefundable Maxsaver fare, the

WORLD BRIEFS

Israeli Says Arafat Seeks Direct Talks

GENEVA (Reuters) - In what would appear to be a radical policy change, the Palestinian leader Yasser Arafat is ready to enter direct peace talks with Israel, a member of the Knesset, Israel's parliament, said

"He said be is ready to enter direct negotiations outside an internation "He said be is ready to enter orrect negotiations outside an internation-al conference," the leftist legislator, Charlie Biton, said in Geneva, where be and two associates met Monday night with the Palestine Liberation Organization chairman

Mr. Arafat asked Mr. Biton to give Israel a message outlining three conditions for direct talks, Mr. Biton said. He did not reveal the conditions As recently as Monday, addressing a United Nations gather-ing in Geneva, Mr. Arafat continued to demand that talks be conducted at a multinational peace conference with the PLO as a full delegate. In Jerusalem, a spokesman for Prime Minister Yitzhak Shamir said Mr.

Shamir saw the message as a propaganda exercise. Aides to Foreign Minister Shimon Peres, who has clashed repeatedly with the hard-line prime minister over whether to agree to a conference that would include the PLO, said he would not accept any message from Mr. Arafat

South Korea Labor Picture Improves

SEOUL (WP) - Labor unrest appeared to diminish Wednesday throughout South Korea as workers returned to the assembly lines at Daewoo Motor Co., one of the nation's biggest companies.

Government officials said strikes continued at 269 companies, down from more than 600 at the end of last week. Most of the companies affected were small taxi and bus companies. Every day this week, more disputes were resolved than broke out at new locations, officials said One potentially explosive dispute at the Hyundai shipyard in Ulsan, remained unresolved. Thousands of workers held a sit-in to protest the

company's closing of the shipyard and refusal to negotiate further the wages.

Ex-President of Congo Is Arrested

BRAZZAVILLE (AFP) — The former Congolese president, Joschim Yhombi-Opango, who was ousted in 1979, has been arrested for ope-tioning, Information Minister Christian Gilbert Bembet said here Wednesday.

He gave no more details, but the detention follows a weekend army raid in northern Congo on the hideout of rebels loyal to General Yhomis-Opango, who has been living under house arrest in his home town of Owando, 310 miles (530 kilometers) from the capital.

Pierre Anga, a rebel leader and a former captain, was reported to have put up roadblocks around Owando. He and several fellow tribesness escaped after the raid, which left four dead, two of them soldiers, and ar seriously wounded, officials said.

Mercedes Dismisses Black Strikers

EAST LONDON, South Africa (Renters) --- Mercedes-Benz of South Africa Ltd. dismissed 2,800 black workers Wednesday for defying an ultimatum to end a five-week strike that has stopped local production of the luxury cars.

The National Automobile and Allied Workers' Union was demanding a 43 percent wage increase, and it rejected a last-minute management offer of a 15 percent raise.

In Cape Town, Denis Worrall, the former South African ambasador to Britain, said Wednesday that he had met representatives of the banned African National Congress last weekend during a visit to Zimbabwe. Mr. Worrall quit his diplomatic career to run against the rating National Party in the whites-only general election in May, pushing for faster reform of apartheid laws. He was narrowly defeated.

Kanak Leader Cites Libya as Model

NOUMEA, New Caledonia (Reuters) - A Kanak separatist leader suggested Wednesday that Libya was a possible model for an indepen-dent New Caledonia, the French territory in the South Pacific that will vote on independence in a referendum Sunday.

Yann Celene Uregel, leader of the Kanak Liberation Front, said, "It is the organization of the Libyan people that interests us. The system can be easily adapted here." Mr. Uregel's faction is part of the separatist Kanak Socialist National Liberation Front. The front is boycotting the refereidum, which it says gives too little weight to indigenous Melanesian slanders, or Kanaks, who constitute 43 percent of the population. - .

Restrictions on most discount. Meanwhile, Noumea, the New Caledonian capital, was adorned with fares have cootinued to mount. As French flags Wednesday as 25,000 loyalists staged an election rally recently as April, for instance, air- proclaiming their allegiance to France.

For the Record

By Martin Tolchin istering funds. New York Times Service

Reagan, Rousing Finish

In Mind, Lists His Goals

WASHINGTON -- President Ronald Reagan, saying he wants to end with "a good curtain call," has outlined his agenda for his remaining 16 months in office. He set as his primary domestic goal the Sen-ate's confirmation of Judge Robert good curtain call." H. Bork to the Supreme Court.

At a meeting Tuesday of senior administration officials, Mr. Rea- face one more important task, and gan said that his other priorities no more important task. I should included an arms control agree-ment with the Soviet Union, the of the Supreme Court of Judge restoration of "true democracy" in Robert Bork." Nicaragua, a bodget-balancing constitutional amendment, the right to veto specific budget items while approving the rest of a bill and an "economic bill of rights" that would stress turning over some government activities to the private sector.

The president was silent, howevthe conservative agenda oo social issues.

Mr. Reagan said he hoped that the rest of his term would reflect a show-business maxim: "The whole philosophy was, when you come to town, open big. And now, well, it's

> "On the domestic side," he said, reading from a prepared text, "we

Mr. Reagan predicted "a tough fight" but said, "I'm convinced that in the end he will be confirmed." The president was equally emphatic about his commitment to continued aid to the rebels fighting the government in Nicaragua, de-spite opposition on Capitol Hill.

"We will not accept a mere semer, on some topics at the heart of blance of democracy," he said. "We got to this point through efforts of the over 15,000 freedom fighters struggling, and some of

the states greater latitude in admin-





Workers in Hanstramck, Michigan, preparing for the pope's visit to the Detroit area.

CENTENT dane componen ci me world ne of newoger stand during the last s considers on year.

Page 2

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These include a proposed cougressional ban on federal funds for them dying, for freedom for their abortion, a constitutional amendcountry. ment to allow officially sponsored

By Paul Lewis

New York Times Service

York - The United Nations files

containing Nazi war crime accusa-

tions collected at the end of World

War II are expected to be opened

at a meeting Sept. 22 and 23 with

representatives of the 17 former

member countries of the War

and UN officials.

Crimes Commission.

UNITED NATIONS, New

et Unioo on arms control, which be likely" that Eduard A. Shevardsaid "hold out the hope of actually nadze, the Soviet foreign minister, cotting hoth sides' ouclear arse- will meet with Mr. Reagan when he The president noted that the nals.

prayer in public schools and a revi- United States was engaged in "in-sion of welfare laws that would give tensive oegotiations" with the Sovi-House spokesman, said it is "very retary of State George P. Shultz. Marlin Fitzwater, the White this month for a meeting with Sec-

"Customers are oot getting enough choice" in fares at the "hub" airports controlled by the comes to the United States later big airlines, she said.

Alfred E. Kahn, former chairman of the Civil Aeronautics Board and a strong supporter of deregulation, is also worried.

There seems to be sufficient that it would raise one of its most conflict of interest among the various carriers and differences in their widely used discount fares. United and Delta immediately followed strategy that you are oot getting monopoly pricing, but it certainly bears watching," he said. Several airline executives desuit

The airlines have benefited from strong demand this year, and bookclined to discuss pricing. One who ings for September and beyond are would, however, scoffed at the no- stronger than usual. That has put tion that the industry was acting the industry in a good position to hold the line on regular fares and like an oligopoly. "I wish I could believe that," the raise discount fares.

executive, who asked not to be Some analysts believe there will identified, said with a laugh. not be sweeping fare cuts for some

All major airlines were charging time. \$290 in April for regular one-wa The former War Crimes Comcoach fare between New York and mission members, except for Po-Chicago; it is now \$310. The lowest land and France, have indicated regular discount fare on that route that they favor wider access to the was \$99; it is now \$109 and is to files, though there are differences rise a further \$10 by Oct. 3. among them over how broad this

Feeding the fears of those concerned about oligopoly pricing is The archives cootain more accuthe oumber of mergers in the air-line industry in the last two years. sations of war crimes committed in France than in any other country, In 1986, 12 major carriers controlled 85.5 percent of air travel. The other members of the comleading carriers have put in big or-ders for oew planes, about \$25 bil-Now eight account for 94 percent. They are Texas Air, parent of Continental and Eastern: United:

lioo worth io total. Americao; Delta; Northwest; There are other reasons fares are USAir: TWA: and Pan Am. SAir; TWA; and Pan Am. more likely to go up than down, The mergers have ereated a analysts say. One is the growing

handful of airlines with route sys- concern about flight delays and tems that dominate most major other service problems, which may hubs. American, for example, han- cause the government to force redles 63 percent of traffic at Dallas- ductions in the oumber of flights at Fort Worth International Airport. major airports.

2 days m ad vance. The period is now 7 days Richard Speck was denied parole Wednesday by the Illinois parole and will go to 14 days by Oct. 3.

"We are at a watershed for the

industry," said Helane Becker of

Shearson Lehman Brothers, "There

is more pressure on them now to

The airlines, she said, have cut

their costs about as much as they

can by extracting concessions from

raise fares.

board, 21 years after he killed eight ourses in a Chicago apartment. (AP) President Oscar Arias Sánchez of Costa Rica, who will visit Washing-Most major carriers said last week that they would raise their ton Sept. 22 to meet with the speaker of the House of Representatives, lowest discount fares \$10 each way Jim Wright, will probably also confer with President Ronald Reagan, the and increase the advance-purchase White House said Wednesday. requirement from 7 days to 14. On Prime Minister Jacques Chirac served notice Tuesday that a proposed Tuesday, American annouoced

law to make it harder for the children of immigrants to acquire French nationality will probably be shelved until after next year's presidential poli Renters

The south Yugoslav University of Skopje has introduced mandatory AIDS tests for foreigners, university authorities announced Tuesday. About 15,000 foreigners study in Yugoslavia annually, mostly from the Third World. (Reuters)

TRAVEL UPDATE

4 Die in Highway Crash Near London

LONDON (AP) - Two buses, one of them taking tourists on a day trip to Windsor Castle, crashed Wednesday afternoon in a multivehicle pilcup on a highway near London's Heathrow Airport. The police said four persons were killed and 75 injured.

The accident occurred on the six-lane highway linking London and Heathrow and western England. Wreckage blocked the highway in both directions. A police spokesman said two buses, a truck and three cars were involved.

Press Association, the British domestic oews agency, said a witness reported that the pileup occurred when one of the vehicles tried to makes U-tura near a service area.

their workers, buying more effi-Passengers on the Stockholm subway will be banned from carrying marker pens and spray paint in a move to eliminate graffiti, public transport officials said Wednesday. Violators will be fined 1,000 krosor (\$158) when the ban takes effect Sept. 15. (Reuters) cient planes and trimming other expenses. Moreover, most of the

Correction

Because of an error by The Associated Press, the obituary of Si William Haley in the International Herald Tribune on Sept. 8 mistakenly said be had been educated at Cambridge University in England and Dartmouth College in the United States. In fact, be held honorary doctorates from both but had been a student at neither.

Hart Says He Doesn't Plan to Revive N.Y. Industry Said Candidacy for '88 Presidential Race As 'Necessary Evil'

By E.J. Dionne Jr. New York Times Service

WASHINGTON - Gary Hart has said that be has "no plans" to waste God given talent," Mr. Hart re-enter the 1988 presidential con- said. "Twe been given some talents

have an impact" on the political DECORESS out a way to contribute.

Mr. Hart also acknowledged Tnesday for the first time that he had been unfaithful to his wife and said he assumed "total responsibility" for the actions that forced him withdraw his candidacy for the Democratic presidential nomination. He ended his candidacy in

a 29-year-old actress and model.

Koppel on the ABC News program "Nightline." It was his first televi-not a perfect man Mr Koppel Prosion interview since May.

slightly on whether be would ever ing two public separations, have I re-enter the contest. been absolutely and totally faithful "One of the greatest sins is to to my wile, I regret to say the answer is oo.

"But I also am oever going to test but that he intends "to try to and what I've realized in the last answer any specific question about three months is that 1 can't waste any individual." those talents and I've got to figure For the first time, he apologized

for his relationship with Miss Rice. "I'm not going to create a cam-"I want to say to all of you how paign organization." be continued. Pressed to explain whether this sorry 1 am and apologize for those actions," be said. "No one's peramounted to a categorical withdrawal from the race, he replied: bood.

bad judgment but that his trans-gressions were far less serious than mistakes made by President Ron-ald Reagan.

"No troops were sent into combat to die unnecessarily, no laws in the industry, the report said, "A were broken, no papers were shred- to a large extent, accepted by develded, no money changed hands, no opers, contractors and suppliers one lied to Congress and every one in some instances as a necessary

New York Times Service

NEW YORK -A large segue of New York City's con industry willingly accepts domina-tion by organized crime as a "neo-essary evil" that promotes stability and profits, a state report asserted.

nized Crime Task Force marks the first time that a government agency has warned that management and labor in the city's multibilition-dol lar industry have accommodate themselves to racketeering.

The administration of Go

in the interview, the former Col- He went on: "If the question is: of those things happened under evil, providing stability and pro-orado senator seemed to hedge Io 29 years of my marriage, includ- this administration," he said. dictability."

ing that they contain unsubstantilater this month to historians and archers, according to diplomats ated and probably false accusa-The opening of the commission's The officials said that Secretaryarchives would represent a diplo-General Javier Pérez de Cuéllar would probably make this decision

matie victory for Israel, which has been pressing the secretary-general to declassify the files. They have been accessible only to govern-ments on a confidential basis.

The commission was established in London in 1943 and completed its work in 1948. It compiled thousands of dossiers about charges of Nazi war crimes in Europe.

But much of the material is in the



remberg war crimes trials of major March, Israel made public its pre-Nazi figures did not rely on these liminary findings from an initial files but oo its own research, histo-

rians said Tuesday. In the past, diplomats say, many member governments have wanted to restrict access to the files, argu-

Over the last year, the Israeli government has been allowed to start a search of the War Crimes Commission archives. So far, Israeli officials have cop-

ied about 2,300 files and reviewed form of raw accusations. The Nu- roughly half this oumber. Io



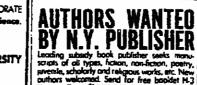
has imprisoned the commander of Haiphong, Vietnam's largest port, for 20 years for illegal trading and speculation, the party newspaper Nhan Dan said Tuesday.

General Nguyen Troung Xuan, two colonels and 18 other military men had run an illegal operation that involved using part of his command's budget for trading in imported consumer goods, loaning money at high interest and dealing in rationed products, the paper

dence that a clear majority of the 17 former commission governments desire it, diplomats report. UNIVERSITY DEGREE

SACHELOR'S . MASTER'S - DOCTORATE For Work, Academic, Life Expe Send detailed resume for free evaluation PACIFIC WESTERN UNIVERSITY

600 N. Sepulveda Bivd., Los Angeles, California 90049, Depi 23, U S.A.



Vaniage Press, 516 W. 34th St., New York, N.Y. 10001 U.S.A.

In the interview, the former Col- He went on: "If the question is:

"I'm oot running for president; I have oo plans to run for president. May following news reports that be I want to be part of this debate and spent a weekend with Donna Rice, I think I have some unique points

of view, if I may say so, to add." He declined to discuss what sort of relationship he had had with

a human: 1 commit sins."

Scholars Likely to Get Access to UN Files on Nazis

in the chaotic period at the end of the war. investigation of 300 files. Some lawyers, therefore, com-

According to officials with acpare the archives with regular police files oo suspects. They say that cess to their findings, Israeli researchers have turned up staff lists since a prosecution was oot underfor several Nazi concentration taken at the time the material was camps, details about Gestapo compiled, the information in the courts and evidence that in 1944 files should be strictly controlled to

Prime Minister Ingvar Carlsson of Sweden met Wednes-

day with President Reagan, the first visit by a Swedish

leader to the White House since Tage Erlander in 1961.

the Allied leaders in London knew about the Nazi program of mass killing of Jews and others in camps but did not try to stop the executions by bombing the camps.

A file on former Secretary-General Kurt Waldheim was discovered in the collection last year. Mr. Waldheim, who is now president of Austria, served during World War II in German Army units that were uplicated in the deportations of

Jews in Greece and reprisals according to diplomats. against partisans in Yugoslavia. The more than 40,000 files commission are Australia, Belgium, Britain, Canada, China, Czechosloiled by the War Crimes Commision are now stored in Manhattan. vakia, Denmark, Greece, India, Luxemhourg, the Netherlands, New Zealand, Norway, the United The material contained in these

States and Yugoslavia. South Africa was originally a member hut dropped out sooo after the commission was formed.

Among other issues, the members must agree on who should decide who qualifies as a recognized scholar and who should make the

decision to open the files, whether a national government or the secretary-general. The Reagan administration now

contends that each UN member government should be empowered to authorize anyone it wishes to

view the files. Israel supports the American po-sition, which would effectively transfer the right to grant access

from the Secretariat to member governments. Canada wants the secretary-general to retain ultimate control over

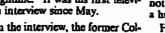
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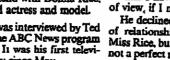
the named individuals

access should be.

the archives, although it favors easing the rules of access to them. Mr. Pérez de Cuéllar has indicated that he is ready to grant liberal access to the files if he finds evi-

Mr. Hart was interviewed by Ted





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Mr. Hart said be was guilty of Mario M. Cuomo has withheld the

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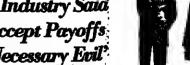
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(AFP)

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RLD BRIEFS INTERNATIONAL HERALD TRIBUNE, THURSDAY, SEPTEMBER 10, 1987 Page 3 Arafat Seeks Direct OTAL HERALD as - in what would appear to be at the state of the best of the be NEW HERALD тне YORK Breather of the Knewer largers 7192: Paris and Reaso, So.; House, 25 ECROPEAN EDITION-PARIS. IM Pris: Paris of Passes, Sc.; Damper, Sc. to care direct argonations the carry discort as governments coundered Captain Amundsen Will Set Out for a met Mandas ingly with the Piller 120 sti. Mr Holum for groe Iscael a message and t salks. Mi Buryp sold lie du bert ENTENN Arctic Islands Made Famous by Herald tales, and a direction a line of the second "One of a series of messages talas continues to second that tal from leading companies of the world the conference with the PLITA _appearing during the IHT's anniversary year. an one Prime Afensier Y thinks & statt as a presidenti cicide For Tobacco Norwegian Explorer's Party Will Au Jour le Jour ships an a provide the tide Card in England? Drift, Locked in Ice, for hethes to derec to a contention by Three Years. a nut a crit and measure from Me a Labor Picture Imp Later uppeared to dama with the transferre returned to the day and the enterol's life, i company it hand attiken countries of a log at the end of last week Mess of Al and hus companies Liers of the A BIT THE THE WI IT TOWN WITH THE REAL i that recent out at the souther days the shippard and refusi to neg nt of Congo Is Arrest AFPY - The former compolese prese Ber Grated in 10", has been any Minister Christian Chilter Best letasta, bur the detention follows and s out the history of rebeis loval to Con the fiving under house artest in his he ki bikancura) from the capital Bader and a former captain compar-CAPTAIN ROALD AMUNDSEN which left four dead, to o of them sta NEWSPAPER STRIKE Sketches Illustrating Some of New

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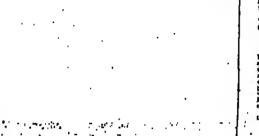
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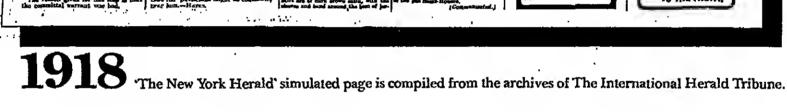
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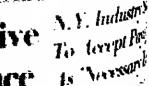
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Two Pioneers of Strength and Durability Begin Long Journeys. And that Pioneering Spirit Lives On.

NO MODELS FROM

MAION CHAN

For Captain Roald Amundsen, the first man to reach the South Pole, this journey was to continue in stages for the next seven years, covering thousands of kilometers of the frozen Arctic Circle. The resulting collection of geophysical data became one of the most important contributions to the understanding of the area ever made.



For the 1918 Mitsubishi T-1, it was the pioneering step that began a heritage in quality truck production for the next seventy odd years. The heritage resulted in an extensive range of dependable work vehicles that came to serve in every segment of society.

As Mitsubishi Motors' first truck, the T-1 was the product of extensive research and dedicated engineering which reflected the determination of its engineers to produce a dependable commercial vehicle of lasting serviceability. Both the three- and four-ton versions underwent a grueling 1,000km endurance test and not only passed with flying colours, but set a tradition in exhaustive quality testing that continues today.

With a range of commercial vehicles covering every possible application, from 550cc minivans to over 16,000cc heavy-duty offroad trucks, that pioneering spirit lives on as Mitsubishi Motors constantly meets the changing needs of society. Today, the T-1's legacy, a dedication to the production of vehicles of exceptional strength and reliability can be found in all Mitsubishi trucks. As with the Mitsubishi Canter, a light-duty truck with its initial production in 1959 and celebrating its one millionth production this yearproof that that dedication is obviously appreciated.

MITSUBISH

MOTORS

THURSDAY, SEPTEMBER 10, 1987



Status Quo for Germans

Bad Times for Gadhafi

Erich Honecker is visiting West Germany, the first East German leader to do so. Not long ago that would have been unthinkable. Now the visit, while historic, seems perfectly natural. It demonstrates that after decades of political conflict the two Germanys have come to accept the status quo: a divided Germany, with a special relationship between the two states and with both playing central roles in opposing alliances.

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Neither Washington nor Moscow tried to stand in the way. They, too, have grown comfortable with the broad ontlines of the status quo. This opens the way for the relationship between the two Germanys to evolve in practical and humane ways with-

out upsetting the European balance. The bonds between these two states are as thick as blood -- as Mr. Honecker's itinerary shows. He is visiting his sister in bis old hometown. This is the sort of tie that keeps the idea of reunification very much alive in West Germany; indeed, that idea is embedded in the constitution there.

Yet no one is more aware than the West German leadership of the qualms that reunification raises, particularly in the rest of Europe. Thus the West German chancellor, Helmut Kohl, speaks to Mr. Honecker of taking down the Berlin Wall, whose construction Mr. Honecker directed, yet Mr. Kohl hardly believes that the wall, or the division it symbolizes, will soon disappear.

It has been, fortunately, a bad summer

for Moammar Gadhafi. Chad, a country

which the Libyan leader has tormented for

years, spent August reducing his army and

prestige to tatters. Showing that its victory

of last March was no freak, the government

of Hissène Habré took back the disputed

Aozou border strip that Libya had annexed

14 years earlier. Chad then carried the war

to Libyan soil for the first time, devastating

a base from which Colonel Gadhafi had

band of one of the more impoverished and

tribally divided countries in Africa, The

French, playing a discreet and useful pa-

tron's role, have armed and trained their

former colony's forces and have kept some

of their own men and forces on the ground

as well. The United States has provided lesser amounts of military aid. Still, there

need be no apologies: All of this foreign

stiffening did no more than put Chad in a

position to defend itself against a govern-

ment that is led by a certified rogue and is armed, massively, by the Soviet Union. The war has produced its own black hu-

It is the case that Chad's armed forces

launched his depredations.

He will work, however, as have his predecessors, to increase contacts between the two states. Just on that score, having Mr. Honecker visit is a plus for Mr. Kohl

As for Mr. Honecker, he is received at last in West Germany as the head of an independent sovereign state - and by the leadership of Mr. Kohl's conservative party, which would not long ago have dismissed the idea as apostasy.

Like many matters German, the visit evokes powerful feelings elsewhere in Enrope and the world. Some see the visit as the fruit of Mikhail Gorbachev's plotting to woo Bonn away from the West. Although Moscow certainly courts Bonn, the Russians have more reasons than anyone to resist a unified Germany. These include the same German bellicosity, in war after war, that has frightened the French, plus an aversion to the instability that German reunification would bring to already shaky Eastern Europe.

While a few Westerners work up fears over the visit, most will hardly notice. Mr. Honecker may come to West Germany, ruffle some feathers with talk of German disarmament and get his own feathers ruffled over the Berlin Wall. Then he will go home and things will go on much as before, with West Germany neither neutralized nor swallowed whole, A divided Germany, like the Atlantic alliance, has become part of the furniture. - THE NEW YORK TIMES

mor. Retaliating against the recent thrust

into Libyan territory by Chad, Libya set out

to bomb Chad's capital of Ndjamena, 1,000

kilometers (600 miles) from the border.

French air defense forces shot down one of

the bombers, whereupon the Libyans de-

nounced those with the effrontery to "resist"

its bombers. In fact the French have been

careful to limit their mission in Chad; they

did not approve of the reconquest of Aczon

U AN

OPINION

Look at the bright side. You fly into Red Square, you make their defense system book ridiculous, you infuriate the military and everyone else — and you still only get four years!"

An International Trusteeship Might Rescue Haiti

N EW YORK - What a collec-tion of fakes we Americans are! We endlessly proclaim our devotion

to democracy and buman rights. We endlessly rebuke the rest of the world for falling short of the high standards of liberty and probity that we unfailingly achieve ourselves (or do we?). And with our self-congratulatory habits of the heart and undaunted lack of self-knowledge, we overlook the fact, evident to others, that our concern for democracy is, to say the So we block a peace settlement in

leged commitment to the future of democracy in Nicaragua - a commitment oot visible to the naked eye when the Somozas ruled Nicaragua and hardly visible today in policy toward, say, the Pinochet dictatorship in Chile. And we righteously denounce the Pinochet dictatorship in

oppression and misery in the commu-nist world appears unlimited. But it remain oblivious to the tragedy over-taking a foriorn country well within its own sphere of influence,

styled himself president-for-life, fled, A provisional government was established. But, led by a Duvalierist gener-

al, it tried to protect survivors of the old regime and rapidly lost whatever moral authority it might have enjoyed. Conditions have been steadily worsening. The country is sinking into chaos. The fabric of its society is disintegrating. In the meantime, so far as one can tell, the American government, media and people regard this develop-ing tragedy with sublime indifference. An administration in Washington

that not long ago was inordinately pleased with itself for having saved the 100,000 inhabitants of Grenada from inspecified terrors today ignores the anarchy threatening five million Hai-tians. U.S. policy is to keep sending a flood of military aid and a trickle of economic aid to an interim government that few Haitians like or trust.

President Reagan, so pious and vol-uble on Afghanistan's woes, is silent on Haiti. If only there were the threat of a communist takeover! But the Soviet Union has troubles of its own; one doubts it would accept Haiti as a gift. Yet there Haiti stands, a few hundred miles off the Florida coast, a

mute but eloquent reproach to our winglory. Can we not show as much solicitude for human rights in Haiti as our liberals show for human rights in El Salvador and our conservatives for human rights in Nicaragua? Can't we do something to avert a catastrophe unfolding on our doorstep?

The answer is not easy or obvious, but that does not excuse reluctance to. confront the question. No one wants to return to a United States military occupation. But how about a multinational rescue mission undertaken through the Organization of American States or the United Nations?

Humanitarian intervention has status in international law. What Haiti needs is some form of disinterested international trusteeship to restore a framework of order within which recuperation, development and democracy might become possible. Let us at least pay attention to the problem, recognize its growing urgency and think hard about what might be done.

The writer, a Pulitzer Prize-winning historian and biographer and now profes-sor in the humanities at the City University of New York, was a special assistant to President John Kennedy. He contributed this comment to The New York Times.

Foes of Smok Why Israelis Are Losing In America

By William Safire WASHINGTON -- Throughout W the United States government, the cause of Israel has suffered a steep decline in the last year. ..

At the Defense Department, jubi lation prevails at the shooting down of Israel's bid for technological independence in the international aircraft market. The United States, which had been paying the bills for develop-ing the Lavi fighter, forced the Israeli cabinet to bow to the inevitable.

At the State Department, the said The most potent and implacable of Israel's enemies is no longer being exposed as the center of terroris instead Damascus is being courted at Foggy Bottom as if its savage regime had turned over a new leaf.

and with smokers, as happens in and with smokers, as happens in the smoke evalued by stackers is the smoke is "sidestream evalue" At the National Security Council in the White House, the decision was made to support Arab Iraq against Persian Iran in the Gulf war strategy bitterly opposed by every visiting Israeli cabinet official interesting the separator of smokers

What is the reason for the fall of Israeli influence? Some point to the backlash from the Iran arms-for-hos-tages swap, or to the ascendance of the Arab-leaning national security sivis-er, Frank Carlucci. Others find the cause in the two-headedness of the

coalition government in Jerusalem. The underlying reason for Isaal's new impotence in Washington, in my view, is in information still being de-

veloped at the Justice Department. The festering Jonathan Jay Pollard spy case, and the refusal of Israel's aging leaders to face up to the urgent need to treat the source of infection, make possible the defeat of Israeli economic, anti-terrorist and strategic arguments all through the U.S. government.

Pollard? Wasn't the American trair who was hired to provide a roomful of secret documents to Israel con-victed and jailed? Wasn't the Israeli general who handled the operation indicted in America and induced to resign his air force commission? Most Americans and Israelis think the story ended with that, and with the absolute guarantee from the Shamir-Peres coalition that such spying has stopped. But the Pollard case is far from

over. While the jailed spy is convemently forgotten by the government that used him, two prominent former Israeli officials remain protected by a fearful political establishment.

Rafi Eitan and Avraham Bendor are legendary figures in the world of espionage. Together they led the team that kidnapped Adolf Eichmann in Buenos Aires in 1960 and brought that war criminal before the bar of Israeli justice. Eight years later, the same two Mossad operatives appeared at an Apollo, Pennsylvania, nuclear-processing plant. After their visit, 587 pounds (266 kilograms) of weipons-grade uranium was reported missing.

Commission to have the genocide charge taken up Mr. Bendor, using the alias "Avraham Shalom," rose to the top of the internal security service, Shin Beth. When a news photograph provided evidence that his men murdered a conple of Palestinian terrorist prisoners, his agency was caught trying to frame loscow's Decis an army commander; however, Mr. Bendor and his aides resigned and ¹pening the Do headed Lekem, an intelligence unit set up outside Mossad to provide deniability for high officials, which recruited the Pollards (and perhaps William J. Broad New York Times Service another American miknown to the SCOW - Although possibly Pollards) to steal U.S. secrets. When Thing new ammunition for any other ally joins ally joins to the soviet Union has taken to the soviet of the soviet the operatioo blew up, Mr. Eitan also resigned, and was rewarded with a top job in a state-owned industry. To give the appearance of an inves-tigation, Prime Minister Yitzhak Shataning step of opening a variety c the Western inspection to show yarsk to mir --- who served a decade in Mossad appointed a nonjudicial board. aligness for an East-West aca social time in arms conwhich issued the expected whitewash. A Knesset committee under Abba Eban waggled a finger but could not le frontin, in making its decipenetrate the wall of secrecy. aloopen its Krasnovarsk site to However, U.S. officials who talked presional delegation over the to Mr. Eitan under a grant of immuniand scens to have calculated ty believe he lied to them. As a result, a the game would outweigh any and or military losses. grand jury in Washington may indict him one of these days, along with two Isracli diplomats who were spirited Le Regan administration has fied for years that the partly than a ray" radar station than a due to ballistic mis-than ad Ureburger in a for track out of the United States as the Pollards were caught. Mr. Bendor is suspected of aiding the cover-up of his hay and Washington has ofsidekick's "renegade" activity. None of the Israelis charged with and this as one of the more tions examples of Soviet cheatespionage in America will be returned to stand trial; instead they will contintopening the installation for U.S. ue to be protected by a coalition of cover-up in Jerusalem that puts a per-sonal fear of the exposure of ministenthe nutting an end to the Not the in it has made itself seem al involvement ahead of the long-term security interests of the state." What has the unconscionable stone-walling done for Israel? Let's see: Airandar issue than in risking time of the ABM treaty. Adar political risk is that the WASH sta administration might ig-gressmen the bid for a dialogue and visited th the the new Krasnovarsk noyarsk craft workers are unemployed, Syria's President Assad is rehabilitated, objections are muted to the pro-Arab tilt in the Gulf war, Israel's supporters in the United States are sick at heart --and that's only the beginning. The New York Times.

reading the Blame in Southe two front-page articles on the ecos problems of Mozambique and

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in was mentioned only once. In post Rebellion Leaves Mozam-per Sucken Country fails to men-sont Africa at all in discussing the stan has desured. Mozambique's new it calls a "ovi war" what is in hamminusl anach en Mozambique it government of South Africa using e Withou: Le support of a Africa, the Mozamoloue National

indicating that South African day forces are making repeated atsive Angola. Once again we read of a ad destabilization by South Africa.

RANDALL ERICKSON. Paris.

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Greenspan Tightens Up

thing. Other countries he has despoiled, mes-

Alan Greenspan, the new chairman of danger. The Federal Reserve Board's job is the Federal Reserve Board, took a neces- to preserve the dollar from those twin sary first step on Friday when the board threats, inflation at home and a falling 3 mercentage point. For nearly a month since he took office there had been much speculation in the financial markets whether he would dare to tighten up. A presidential election campaign is getting under way, and high interest is not popular. But the dollar's exchange rate was falling, and fears of inflation were rising. That is why the Federal Reserve acted. The next question is whether an increase of half a point is enough to hold the dollar steady. It is certainly not going to be enough if President Reagan cannot end the deadlock with Congress over the budget for the fiscal year that begins in three weeks. Under present policy, the Congressional Budget Office has persuasively warned, the federal budget deficit is about to start upward again. A bigger budget deficit is a force for more consumption, drawing more imports into the U.S. market and increasing the other deficit - the one in the forcign trade accounts. There is a direct relationship between the two deficits. They have soared upward together in the last five years, and they are

and separated themselves from Chad's inand-out incursion into Libya proper, In matters involving Colonel Gadhafi, it is prudent to be wary. He has not been altohad help in becoming more than the ragtag gether reduced to size. But the fact is, it has been downhill for him since the United States responded to his association with international terrorism and launched its air attack of April 1986. Chad added useful insult to this injury. To be bombed by a great power was one thing, although there was for Libya the additional sting of having the act. condoned by most of those it had expected to protest. To be humiliated by a seemingly puny and helpless victim is quite another

> merized and intimidated will notice. -THE WASHINGTON POST.

least, partial and selective. Central America because of our al-

gola, Mozambique and Yemen.

lapses from democratic purity in An-America's capacity to shed tears for Haiti was once one of the most

Haiti was once one of the most valiers no longer. In February 1986, rosperous islands in the Antilles. It Baby Doc, who had optimistically

By Arthur Schlesinger Jr. was once France's richest Western Hemisphere colony. It was the first country in the Americas after the United States to gain independence. But its history since independence has been pathetic - and never more pathetic than today, after 30 years of misrule by, first, the demonic "Papa

Doc," François Duvalier, and then his feeble, luxury-loving son, "Baby Doc," Jean-Claude Duvalier. The tyranny rested on terror and magic, Between Papa Doc's practori-an guard of official thugs, the notori-

ons Tontons Macoutes, and his voodoo doctors, the Haitian people, already miscrably poor, undernour-ished and demoralized, were reduced

to almost hopeless passivity. There was a small and gifted class of educated Haitians - economists, writers, painters - but they were mostly driven out or killed during the Duvalier years. Today the economy is in ruins. Per capita income is a good deal less than it was two centuries ago. Haiti is far and away the poorest country in the Western Hemisphere, Finally Haitians could take the Du-

Put the Khmer Rouge in the Dock for Genocide

T ONDON - Every year the United States and most of the rest of the world vote at the

By Jonathan Power

by the World Court will force the rest of the world

interes Renamo, would not exist. temon does, however, manage to minCuba, the Soviet Chion and East any as supporters of Mozaminque. leother article, "Of Money Shields tale From Jolt of Fiscan Reality. Sees to mention South Airiss cace, but

going to have to come down together. If they come down, Mr. Greenspan can relax. The pressure will be off. But if they stay high, the dollar will continue to be in

exch nee rate abor vates the other. Even after Friday's increase in rates. Mr. Greenspan has no margin for error. The consumption boom has brought unemployment down much faster than most people expected at the start of the year; it is now 6 percent of the labor force and probably cannot go much lower without beginning to generate wage inflation. If the whole job of restraining inflation

is left to Mr. Greenspan, interest rates will have to go a good deal higher. They are his only weapon. He will have to let them so high enough to chill consumption by Americans and to persuade foreigners to keep investing in the United States. That certainly would risk a recession.

Both President Reagan and the congressional leadership need to keep that in mind as they come back to Washington and return to their unfinished budget. They share the responsibility to work out a rational compromise, but the greater part of that responsibility is Mr. Reagan's. He is, after all, the president. If he fails, and budget policy is left to the automatic pilot, Mr. Greenspan's decision on Friday suggests the direction he is likely to take.

-THE WASHINGTON POST.

Overdue Tennis Lesson

For years John McEnroe screamed and cursed his way through tennis matches. and the craven tennis establishment cave in. Last weekend, in the person of a 22year-old Australian umpire named Richard Ings, the sport finally grew some selfrespect and struck back. For once the parable of the brat had the right ending. It was the best thing that has happened to decent behavior in years.

Mr. McEnroe was up a set and service break in his third-round U.S. Open match against Slobodan Zivojinovic of Yugoslavia, and serving for the second set at 5-3, when he had what he regarded as several bad calls. He lost the game and his self-control and went into his familiar tirade at the expense of Mr. Ings, who was in the chair.

The officials on whom Mr. McEnroe has heaped such abuse in the past have often been amateurs, local volunteers whom he

turns out to be a professional, one of five full-time umpires now on the tour. He gave Mr. McEnroe a warning, and when that didn't work be assessed him a penalty point and eventually took away a full game and the set. Under the rules, the next outburst would have cost Mr. McEnroe the match Wonder of wonders, he shut up. Deterrence works. He also began to play better tennis, and eventually won. Mr. Zivojinovic applauded him as they came to the net to shake hands. The show of good sportsmanship was jarring in the contrast it provided. Mr. McEnroe will apparently be suspend-ed for two months. That will interrupt a comeback and could end his career. No one can rejoice in a result like that, but the lesson

could bully with impunity. But Mr. Ings

the kinds of behavior they tolerate. -THE WASHINGTON POST.

can only be healthy. Games send messages in

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United Nations to continue recognizing the Khmer Rouge regime led by Pol Pot as Cambodia's legal government. That overthrown regime was widely considered one of the most murderous groups to cross the 20th century's political stage. Nevertheless, the Khmer Rouge flag flies unmolested on New York's First Avenue.

At last there is a serious movement afoot to alter that policy. It is an attempt to take the Pol Pot regime to the World Court on the charge of genocide — as defined by the UN genocide con-vention, written and voted upon by 70 nations. The prime movers are a group of Cambodian survivors, including Dith Pran, the New York

Times staff member whose story was portrayed in the movie "The Killing Fields," and the actor Haing Ngor, who portrayed him in the film, but whose real life experience was worse; He was crucified over a fire for three days. The atrocities committed by Pol Pot's men

were beyond imagination. Systematic and coldblooded, they killed more than one million Cambodians from 1975 to 1979.

Those deemed by the Khmer Rouge to have no lace in the revolutionary order were eradicated. City dwellers were compelled to leave towns; thousands of them died during forced marches to the countryside. Political enemies were merci-lessly liquidated, as were many who had done

WASHINGTON - The Alan Greenspan era at the Federal

Reserve Board has been usbered in

with the first boost in interest rates

since 1984. Apparently it was de-

signed to tell the world that the Fed is

worried about the slump in the dollar

The stock market, historically fear-

ful of an interest-rate spiral, thinks

that the cure may be worse than the

disease: This discount rate increase

may be the first of a series of money-

tightening moves. Such a pattern had been predicted by those who believed

that Mr. Greenspan, who succeeded the hard-nosed Paul Volcker at a time

wheo the dollar was weakening,

would have to take some highly visi-ble action to prove his manhood.

Of course, nothing thet happens at the Fed is quite that simple. For one

thing, it is not a one-man show. There

are five other governors (plus one va-

cancy at the moment), and a majority is needed to raise the discount rate.

Mr. Greenspan, less aloof than Mr. Volcker, has been busy cultivating good will among his fellow governors. With two abscat last Friday, he had

the votes of the other three for a 4-0

The New Chairman's Every Move Will Be Watched

A LAN Greenspan's every move will be watched for a tilt to the Republicans with faster growth at the cost of higher prices. He says he will reject White House pressure; he must do precisely that. His international challenges are even

greater. Here, national interests make agreement more difficult and the terrain is less familiar. The rise and fall of the dollar affect the American economy directly

and quickly, through trade and investment. Early on, he must build strong ties

with the major players, especially Tokyo and Bonn, with an eye to mapping clear strategy for currency exchange rates, not just reacting. On Third World debt, the industrial countries must help more. The United States suffers from loss of

exports to Latin countries strapped by debt. Mr. Greenspan's fresh voice is

needed to awaken an administration that has muddled from crisis to crisis.

decision to boost the discount rate.

and a perceived threat of inflation.

nothing. So were Buddhist monks and the Cham. an Islamic people. Twenty thousand people were executed in the S-21 extermination center alone. I have before me records kept by the Khmer Rouge of victims killed and tortured. Like the Nazis, they were cruelly methodical. A memo from the interrogator's manual orders those in charge of torturing to get the right balance be-tween propagandizing and torturing. It tells inter-

rogators to keep up the victims' hopes of survival so as to make them as malleable as possible. Eventually the Khmer Rouge were overthrown Vietnamese soldiers, who still occupy Cambodia. It is a stern, austere, forbidding, kind of occupation, but it ended the massacres. However, because Vietnam is an invading power it has been condemned by most members of the United Nations. Every year there is a ritual vote and almost

every year the majority against Vietnam grows. Who legally rules Cambodia? For want of an easy alternative, the West has decided to live with the ugly characle of recognizing the Khmer Rouge. Not only do the Western countries, through

votes at the United Nations, continue to recogni the political existence of mass murderers, they supply them with surplus grain through UN relief operations and the World Food Program. The attempt by the Cambodian Documentation

Bill Neikirk of the Chicago Tri-hune, in his new book "Volcker: Por-

trait of the Money Man," says that

financial markets loved Mr. Volcker

that exuded confidence and trustwor-

stand behind a country's money."

thiness, the same principles that

Mr. Greenspan's record is that of a

highly conservative economist with all

the proper "establishment" concerns

about inflation and budget deficits,

but there is some concern that he may

not be sufficiently worried about the

dollar. Just before his appointment to

the Fed chairmanship, be forecast that

the dollar would continue to decline

and implied that a decline would be

the only way to ensure a significant

So it was natural for exchange mar-

kets to test him. At the end of August,

as the dollar fell toward 140 yen after holding above 150 for much of the

year, the markets interpreted the lack

of American support for the dollar as proof that the Reagan administration

was oot opposed to further slippage. This would be a departure from

"target zone" agreements made in

- From an editorial in The New York Times.

reduction in the trade deficit.

because of an undefinable quality

to consider its responsibility more clearly. It is possible not to recognize any regime as the wernment of a country, as is the situation with the United States and Angola.

Why have the genocide convention if it is never to be used? When it was negotiated and agreed on in 1948 it was seen as the embodiment of the international commitment that aever again should such an unspeakable atrocity as senocide be allowed to go unpunished.

Only governments can initiate actioo before the World Court. The Cambodian protest group has been lobbying Western and Southeast Asian governments to bring the Pol Pot case before the court. Washington and the European Community say they are considering it. Australia has dicated that it may initiate the action if it has the support of at least one Southeast Asian country. This case should have the unequivocal support of all who believe in the rule of law,

A World Court ruling will not solve Cambodia's problems any more than it would bring back the dead. But for the World Court merely to consider the issue would force Western govern-ments to confront the appalling situation into which they have maneuvered themselves. Can they really go on recognizing a government that is likely to be convicted of genocide?

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Greenspan's Debut Hasn't Impressed the Worriers By Hobart Rowen

Paris last February by Treasury Sec-retary James Baker and endorsed at the economic summit meeting in Venice in June. With the trade deficit stubbornly high, and with Congress poised to pass protectionist legisla-tion, a weaker dollar might be the

only way to counteract the trend. But if the dollar continued to give ground, with nothing to brake it, Japaness and other foreign investors whose money is financing the U.S. budget deficit might hold back. Then shortage of funds would cause interest rates in the United States to skyrocket, touching off an American recession and, most likely, a worldwide depression. Therefore, analysis assume, Mr.

Greenspan seized his opportunity last Friday. With unemployment down to 6 percent (which shows a certain strength and resiliency to the domestic economy), he persuaded the other three governors in town to send a signal to the markets: The dollar must

not be allowed to fall out of bed. But a dollar-oriented, tight mone-tary policy carries with it dangers of another kind. Former Fed Governor Emmett Rice says that he vigorously disagrees with the discount rate increase at this stage, "because I don't see inflation as a threat." He thinks Mr. Greenspan was too eager to show Volcker-like toughness.

It is clearly legitimate to worry, as does the stock market, that higher interest rates will be a drag on the economy. As the economist Henry Kaufman said in recent congressional testimony; "Our financial system is going astray. Many deposit institutions are weak, and businesses and households have assumed massive debt burdens." A recession induced

by high interest rates could push some of these over the brink. Mr. Kaufman's lament was under-

scored by a recent report of the Congressional Budget Office showing that "a large oumber" of savings and loan institutions "are still extremely weak." For the Federal Reserve, the dilem-

ma is ever present. If the central bank ma is ever present in the contrast of succeeds in reversing the dollar's de-cline, the only way left to attack the trade deficit will be through a deep downturn that cuts the buying power of American consumers. Thus the inaugural move of Mr. Greenspan's Fed offers no reason to cheer. If it achieves the stated objective, it can bring equalsevere problems in its wake.

The Washington Post.

IN OUR PAGES, 75 AND 50 YEARS AGO

1912: Bulgarians Killed 1937: A Bank Gives Up SOFIA --- The killing of two Bulgarian corporals, who were ambushed by Turkish troops near the frontier post of Kapatepe, is regarded here as further evidence of the desire of the Young Turks to endeavor to force a conflict with Bulgaria in the hope that a war might produce international complications, and that these would enable Turkey to extricate herself from the impasse in which she finds herself. By this latest act the Turks have certainly succeeded in arousing a feeling of great excitement and indignation in the Bulgarian capital. In military circles, especially, feeling is running very high. Unless Turkey promptly accords satisfaction for this outrage, it is felt that the Government will be placed in a very difficult situation, notwithstanding its desire to maintain peace. and farmers living in the surrounding countryside since 1904.

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A REAL PROPERTY OF A REAL PROPER

SCENERY HILL Pa - After 33 years of operation the First National Bank of Scenery Hill today [Sept. 9] paid off its depositors and stockhold-ers in full and closed its doors. Resson: No one wanted to borrow any money. S.W. Rogers, cashier of the bank, explained the action taken. "The people just don't need money in

and homes have been paid for. We couldn't even pay taxes on our building without investing the money of our depositors and there is no place to invest it bere. We held a meeting of the stockholders and decided w might as well quit while the quitning is good, which is right now." The First National Bank has carried

As then a year ago, the Natu-tions: Asource: Defense Council a to br to br to the issue in New York, mar to dicial. The group runs a to state is oviet Karakhstan to good access to Soviet offi-

Man Representative Thomas constitute basedy, Democrat of New treaty."

most of the deposits of townspeople

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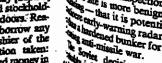
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OPINION

Foes of Smoking on Airliners Are Right

WASHINGTON - I have never seen Richard Longshore, but I like to imagine that the California assembly.

Why Israel Are Lost In Americ

By William Sale

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1999 - Al Francisco Constant, Al Martine Constante da la constante da la constante da la constante da la const

man is ruggedly built for the physical defense of liberty and florid from the rhetoxical defense of it. During the debate on a bill to ban smoking on public trans-portation in California, the chain-smoking legislator said: "I think this is really a get to the back of the bus! And now smokers moker. They are starting to file worker's you're telling smokens to get off the bus." This was not received politely by antismoking activists. They increasingly re-semble the man essayist Joseph Epstein says could not be described as irascible

cause he was permanently inasced. But opponents of smoking on airlines are right. The science is clear and so, therefore, is the ethics of the matter. The most hazardous aspect of air travel, aside from the drives to and from irports, is breathing cahin air. Inhalation of smoke by smokers is America's largest single preventable cause of death and disability. For nonsmokers closely confined with smokers, as happens in airplanes, smoke exhaled by smokers is had. Even worse is "sidestream smoke" that comes from a cigarette's burning tip between puffs. The temperature of combustion is then lower than during poff. Durbin had to use an appropriations

bursts when the 'no smooring of Works and Transportance off, producing high concentrations of Works and Transportance pollutants. The separation of anokers That committee is chaired by an oppo-pollutants. The separation of anokers That committee is chaired by an oppo-pollutants. The separation of anokers That committee is chaired by an oppo-pollutants. The separation of anokers That committee is chaired by an oppo-pollutants. The separation of anokers That committee is chaired by an oppo-pollutants. The separation of anokers That committee is chaired by an oppo-pollutants. The separation of anokers That committee is chaired by an oppo-pollutants. The separation of anokers that committee is chaired by an oppo-pollutants. The separation of anokers that committee is chaired by an oppo-pollutants. The separation of anokers that committee is chaired by an oppo-pollutants. The separation of anokers that committee is chaired by an oppo-pollutants. The separation of anokers that committee is chaired by an oppo-pollutants. The separation of anokers that committee is chaired by an oppo-pollutants. The separation of anokers that committee is chaired by an oppo-pollutants. The separation of anokers that committee is chaired by an oppo-pollutants. The separation of anokers that committee is chaired by an oppo-pollutants. The separation of another is the separation of an oppo-pollutants. The separation of another is the separation of an oppo-pollutants. The separation of another is the separation of an oppo-separation of an oppo-separation of an oppo-separation oppo-sep recirculated does little to protect non- Howard, a New Jersey Democrat who, smokers. Carbon dioxide and carbon Mr. Durbin says, has been a heavy monoxide, both increased by smoking, smoker and is fighting the habit, but

By George F. Will

accomulate in the dry cabin air. To counter the effects of "passive smoking." a passenger needs 50 to 75 cubic feet (1A to 2.1 cubic meters) of clean air per minute. You generally get a maximum of 20. Flight attendents inhale smoke at the smoker. They are starting to file worker's compensation claims and suits about ailments caused by long-term exposure to cabin smoke. The legal vulnerability of airlines will increase after forthcoming studies of the metabolized residue of nio-

.

otine in nonsmoking flight attendants. Smoking increases maintenance costs. Tar from smoke - up to 200 pounds (90 kilograms) a year - clogs valves and instruments. A 10-year-old jumbo jet burns thousands of extra gallons of fuel a year because of the weight of the ghip. Dick Durbin, an Ilbnois Democrat, showed through the House a measure that would ban smoking on flights of two hours or less - 80 percent of domestic flights. His measure would do this good deed by denying development funds for airports that permit landings of simplenes that allow smoking on such flights. Mr. ing and produces more pollutants. Smoking on airplanes intensifies in prohibition on smoking because a prohi-bursts when the "no smoking" light goes bition would have had to pass the Public

believes that two-hour smokeless flights would be too much torment for smokers. Mr. Durbin's measure barely passed 198-1931, even though the organization (198-193), even though the organ representing flight attendants endorsed it. The tobacco lobby enlisted the outdoor adventising lobby (the folks who put the Mariboro man between you and the scen-exy) in opposition. Both were joined by the pilots, ostensibly worried about crazed smokers causing fire in lavatories. Some pilots may want to smoke A more important reason, says Mr. Durbin, is that the pilots do not want to offed the senator who chairs the Commerce Committee's aviation subcommittee --- Wendell Ford, of tobacco-growing Kentucky.

Mr. Durbin's measure, and a more comprehensive ban favored by Utah's Senator Orin Hatch, face the formidable opposition of North Carolina's Jesse Helms. He presumably will manage to support tobacco interests without preing himself as the Martin Luther King of downtrodden smokers.

In American arguments the language of fundamental rights is as thick as the smoke in airplanes. In 1905, Pennsylvania's governor vetoed restriction on pub-ic spitting: "It is a gentleman's right to expectorate." Spitting, a once sacred right now long since abridged, is only obnox-ious and unhygienic. Smoking inflicts on nonsmokers 84 known carcinogens.

True, you cannot swing a cat by the tail these days without banging its head against someone who wants to regulate or han behavior that he disapproves of. But the anti-smoking movement is merely self-defense by innocent bystanders. Washington Post Writers Group.



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LETTERS TO THE EDITOR

Spreading the Blame in Southern Africa, and Elsewhere

Angola (Sept. 2), the country of South Africa was mentioned only once.

The report "Rebellion Leaves Mozambique a Stricken Country" fails to mention South Africa at all in discussing the war that has destroyed Mozambique's economy. It calls a "civil war" what is in fact a continual attack on Mozambique by the government of South Africa using aries. Without the support of South Africa, the Mozambique National Resistance, Renamo, would not exist. The report does, however, manage to mention Cuba, the Soviet Union and East Germany as supporters of Mozambique, The other article, "Oil Money Shields

Angola From Jolt of Fiscal Reality," sees fit to mention South Africa once, but without indicating that South African military forces are making repeated attacks on Angola. Once again we read of a "civil war" and not of an organized cam-paign of destabilization by South Africa. RANDALL ERICKSON.

The Reagan administration has recent-by declared that there is no connection

etween disamament and development.

As your Sept. 2 stories on Angola and

juries and destruction of habitat and live-

mbique make clear, the deaths, in-

Pacis.

In two front-page articles on the eco- lihood, eliminating almost all hope of economic and social progress in millions of people throughout the so-called devel-oping world, is a direct consequence of the sale or gift of unbelievable quantities

of weapons by the developed countries. This lethal hypocrisy was well illustrat-ed recently when the five permanent members of the United Nations Security Council demanded a cease-fire in th Iran-Iraq war. The five, along with client states, supply the bulk of the weapons that permit the insenity to continue.

STERLING DOUGHTY. Geneva

Life-and-Death Numbers

Lewis Fry Richardson's work on arms races and wars deserves more than the casual mention by Barry James in "Improving Forecasting by the Numbers" (July 30). Mr. Richardson's studies constitute the foundation of a small but growing scientific literature on arms race dynamics and conflict.

His two major books on these topics, 'Arms and Insecurity" and "Statistics of Denally Quarrels," were published to the United States by American scholars long after his death. In the 1930s and '40s," the application of mathematics and statistics to the problems of war, peace and unduly pleased with glassest. She does security was not taken seriously and was not appreciate that insolar as current

considered too outlandish to be pubshed. Yet Mr. Richardson was the first, to my knowledge, to demonstrate with considerable accuracy how even defensive moves made by nations to improve their security could lead them into the vicious cycle of armament escalation. The consequences of this process are still with us today and underlie the debates surrounding the Strategic Defense Initiative and the disarmament negotiations.

Mr. James also mentions the work of John yon Neumann who, as the main creator of games theory, provided scholars working on problems of war, peace and conflict with the theoretical foundations and analytical tools to explore some of the ideas set forth by Mr. Richardson.

Mr. Richardson, like Mr. von Neumann, made fundamental contributions to a wide range of fields, from meteorology and hydrodynamics to issues of war and peace. The scope and results of Mr. Richardson's work qualify him as a pio-neer and a major scientific figure of the first half of the 20th century.

URS LUTERBACHER. Gradnate Institute of Intensational Studies. Geneva

The Soviet System Endures Nathalie Novik (Letters, Aug. 25) is

changes in the Soviet Union verge on liberalization, they are insignificant, and insofar as they are significant they sim at consolidating Soviet totalitarianism. There is nothing new about open criticism of various sectors of the Soviet

economy. Lack of productivity, the manufacture of poor quality goods and alcoholism were frequently condemned in Stalin's and Khrushchev's days, just as efforts to improve the dismal standards of hving have been going on since the end of World War II.

Tatars and Ectomians may get away with small demonstrations, but these are followed by arrests and, of course, their demands fall as usual on deaf cars.

The Stalinist nature of the U.S.S.R. has not changed. Expansionism is alive and well in Afghanistan. The people live in a closed society from which, generally, they cannot escape. The Communist Party is not surrendering its power or privileges. The East European satellites remain fro-zen in the shadow of the Red Anny. Thousands of dissidents remain in camps

or psychiatric prisons. Calculated propaganda gestures like the release of Andrei Sakharov or the occasional intrasion of a Western voice in the Soviet media do not alter the basic character of society. There is no "slow winter thew," merely some long overdue adjustments of the one-party state.

LIONEL BLOCH. Gstaad, Switzerland

Leave the Titanic in Peace If the Titanic were an ancient wreck, like a Greek triveme at the bottom of the Acgean, there would be no objection to raising parts or all of it. If it were recently sunk, like the Herald of Free Enterprise, which went down in shallow water in March, there would be no discussion of the rights and wrongs of a salvage operation. Provided there were no technical

difficulties, everyone would want the ship raised and any bodies of victims delivered to next of kin for a decent burial. But the Titanic went to the bottom 75

years ago and became a graveyard for more than 1,500 people, just as military comptanies in every land are final resting places for thousands who did not want to end up there. So the Titanic site should receive the due respect of a cemetery. RICK BENGE Vienna

Straight Talk About AIDS

Congratulations to you for printing, and to Robert Scheer for writing, the article on AIDS entitled "U.S. Experts Doubt a Heterosexual AIDS Epidemic" (Aug. 15). It is by far the most factual, clear and concise report on this subject that I have seen. This is the type of reporting worthy of a global newspaper. PHILIP E. NEWMAN. Paget-Ville, France.

Titanic: Back to the Spot Where the 1,500 Froze

By William F. Buckley Jr.

French island of St. Pierre just south of Newfoundland, half a dozen of the entrepreneurs who make up the U.S. end of the expedition devoted to lifting from the floor of the ocean, down 3,800 meters (almost two and a half miles), artifacts and memorabilia from the Titanic. There is the tension one might expect

in returning to the business of diving deep into the ocean, deeper by far than any submarine can travel. And there is

MEANWHILE

additional tension. Although all the tradition of salvage adamantly affirms that the operation could proceed with the kind of self-assurance one associates with the salvage operations that in years gone by have found gold and diamonds inkincense and myrrh off Bermuand fra da, Florida, Peru and indeed everywhere in the world where storms or pirates have sunk boats loaded down with treasure - despite all this, there is some-thing different about the Tranic.

Although it has been 75 years since it went down and there are now only half a dozen survivors of the haunted night, the Titanic is widely thought of as an international monument, incorruptible in its chaotic arrangements on the ocean floor. For this reason, great tenderness is being shown toward the White Star Line's glamorous, ill-starred vessel. There has been no manhandling of the ghostly carapace, the forward end of it separated from the stern end by half a mile.

During the preceding six weeks, divers in the tiny submersible with its prehensile arms and marsupial front have brought up only loose-lying arti-facts that would otherwise continue to rest on the ocean floor. Where these will finally end it is too early to know.

There is pressure from French must ums. (France has been the principal partner of the U.S. enterprise.) And the U.S. situation is complicated by a bill of Senator Lowell Weicker forbidding any memorabilia from the Titanic from being brought into the United States with an eye to "profit." This presumably means that if the Metropolitan Museum in New York were to judge artifacts from the Titanic as being of historical interest, even as artifacts from the Argonaut are seductive to human curiosity, it could not legally bid to possess them. The problem is one part legal, one part moral, and the adventure-entre-

preneurs on this 200-foot (60-meter) teader led by Robert Chappaz of France and John Joshyn of California are not finally resolved on what to do with it all, after it goes from here to France, where a government agency will preside over e restoration. And then to Monte Carlo or Paris, where the artifacts will be part of a documentary scheduled to be shown in America on Oct. 28.

A BOARD L'ABEILLE SUPPORTER — The tender vessel is bound for is evidenced by the score of books that have been published since the 700-odd have been published since the 700-odd on April 18, leaving behind them at 40 degrees 16 minutes north latitude, 40 degrees 14 minutes west longitude, more than 1,500 people who died on that starlit night, when the ocean was so smooth that if its temperature (several degrees below

Page 5

freezing) had served to create ice, passengers who did not get a place in the lifeboats could have skated away. But the waters south of Newfoun

do not freeze into ice, however efficient they are in freezing people who jump into them. Jump into them not as trainces for the Polar Club but because some passengers elected that alternative to merely going down with the giant 882-foot vessel, the largest ever built at the time, embarked on its luxinious maiden voyage

from Southampton to New York. One popular legend about the Titanic is that those who were not abourd the sparse lifeboats went down to the bottom of the ses in the vessel. They didn't. In fact, the evidence is that, as they crowded the stern deck waiting for the final, exhausted plunge as the sea water, pulling in through the starboard cavity spring by the iceberg, crawled aft to-ward them, they had on life preservers. They were visible to the survivors in the 20 lifeboats and rafts. When the Titanic went down, its crew and passengers floated up under the buoyant imperative of their life preservers, including the musicians who were playing in the main saloon as the great ship went down. One hopes there were wise men

among them who thought to ditch their life preservers, because that way they would have died within a matter of minutes. As it happened, they floated up from the descending ship in a tight circle around the spot where the ship had squatted from the moment the casines were turned off at a quarter before midnight until 2 in the morning, when it took its final, all but vertical dive. Instead of going down, they floated in the freezing water, and there was much testimony by the survivors to the awful wails of pain, desperation and entreaty, lasting as much as 40 minutes, as little by bitle the cold froze them to death leaving forever unanswered the ques-tion: Why didn't the lifeboats, half of which were half-empty, make any effort to rescue at least a few of the survivors? There will be oo hint given of why

this was so when I go down to see the remains of the Titanic,

Universal Press Syndicate.

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GENERAL NEWS

Moscow's Decision on Radar Site: Opening the Door for Political Gains

By William J. Broad New York Times Service

MOSCOW - Although possibly providing new ammunition for those who charge it with treaty violations, the Soviet Union has taken the surprising step of opening a disputed top-secret radar installation to Western inspection to show its willingness for an East-West accord at a critical time in arms control

The Kreanlin, in making its decision to open its Krasnoyarsk site to a congressional delegation over the weekend, seems to have calculated that the gains would outweigh any political or military losses.

The Reagan administration has violates the 1972 anti-ballistic mis-alls treaty, and Washington has of-ten cited this as one of the more for years, the Pentagon has said ogregious examples of Soviet cheat-

In opening the installation for inspection, Moscow has not suc-coeded in putting an end to the charge, but it has made itself seem more interested in machine to more interested in resolving the Breaks ABM Pact voting radar issue than in risking the failure of the ABM treaty.

A clear political risk is that the Reagan administration might ignore the bid for a dialogue and simply cite the new Krasnoyank

The inspection indicated, however, that the worst fears of American 19. military experts about the site appear to be unfounded.

Although the half-built radar 75 M 150 11 18.4 clearly raises questions about Moscow's adherence to the letter of the ABM treaty, close inspection suggested the site is more benign than menacing --- that it is potentially a motiocre early-warning radar rath-at than a hardened bunker for coordinating anti-missile war.

> The Soviet decision was also probably infinenced by arms-con-trol advocates in the United States the vigorously lobbied for the disputed site to be opened.

More than a year ago, the Natu-tal Resources Defense Council, a The State Department spokes private group based in New York.

J. Downey, Democrat of New treaty."

York, also pressed Soviet officials the Kraspoyarsk site violates a pro-hibition in the ABM treaty against Mr. Downey and the Natural Resources Defense Council eventu-warming radars anywhere except ally joined forces in a weeklong trip along a nation's periphery. to the Soviet Union to pursue 2 This criticism increased in April, variety of arms-control issues; the when photos of Krasnoyersk, taken

yarak tour. On one technical level, the Rus- perts quickly used these images to sians had little to lose since topsecret photos from American spy

NEWS ANALYSIS

satellites had already raised many questions about the radar's purpose. Spotted from space more than four years ago, the radar is The Reagan administration has clearly pointed northeast — a di-isted for years that the partly rection well suited for tracking en-

New York Times Service

WASHINGTON - Three congressmen and several experts who visited the Soviet radar site at Krasnoyarsk last week said Tuesday whether the installation violated the 1972 anti-ballistic missile tres-

But the State Department re- weekn peated the Reagan administra- chine. tion's contention that the radar

respection and said the two years to make and outside die grant or so before the radar becomes op-erational provided the United States with an opportunity to nego-tiate a resolution to the dispute.

to be used for space tracking. The State Department spokes-ers, the Soviet Union now stands

private group based in New York, man, Charles E. Redman, said ready to score political points. relief the issue in meetings with Tuesday that the administration Most importantly, increased can-Soviet officials. The group runs & stood by its assessment. "We see no dor over Krasnoyarsk seems to be-Program to manitor the Soviet no-evidence in the information avail- speak a desire to stop the erosion of clear test site in Soviet Kazakhstan able now," he said, "which would the ABM treaty, ostensibly a longand has good access to Soviet offi-alter our conclusion that the radar term Soviet goal based on its oppo-under construction at Krasnoyarsk sition to President Ronald Res-In April, Representative Thomas constitutes a violation of the ABM gan's "Star Wars" anti-missile

program.

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visit culminated in the Krasno- by a French civilian satellite, were made public. Private military exconfirm the Pentagon's judgment - that the radar was pointed

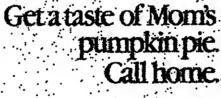
northeast and was thus a probable violation of the ABM treaty. What the recent inspection did was to lessen the West's worst fears about the site. The Reagan admin istration has charged that the radar is intended to track enemy warheads, at the very least for early warning of nuclear attack, and possibly for help in waging defensive wars meant to destroy enemy mis-siles and warheads, an ABM application known as battle manage-

meat. But inspection showed the site to be half-built and shoddy, apparent-ly with no future as a hardened bunker for waging anti-missile wars. At best, it might someday be a hundrum early-warning radar with some limited satellite-tracking capability.

One of Moscow's potential losses in the visit involved the breach of military secrecy. A major by cite the new Kramoyark in yara were unable to determine goal of hiding what seen like mun-ngs as evidence to back up its that they were unable to determine goal of hiding what seen like mun-whether the installation violated dans facts about military hardware is to deny potential foes firm knowledge of the strengths and es of a nation's war maweekne

In an unusual break with such does in fact violate the ABM treaty. The returning delegation praised tion that toured the site was al-Moscow for opening the site to lowed to take more than 1,000 pho-inspection and said the two years tos inside and outside the giant

tiate a resolution to the dispute. The Reagan administration, cit-ing the 1972 treaty's ban on anti-missile radar that could be used for novarak radar is similar to average missile radar that could be used for battle management in a nuclear war, has dismissed the Soviet asser-tions that the Krasnoyarsk radar is battle management in a nuclear war, has dismissed the Soviet asser-tions that the Krasnoyarsk radar is battle management in a nuclear war, has dismissed the Soviet asser-tions that the Krasnoyarsk radar is battle management in a nuclear tions that the Krasnoyarsk radar is battle management in a nuclear tions that the Krasnoyarsk radar is battle management in a nuclear the Krasnoyarsk radar is battle management in a nuclear the Krasnoyarsk radar is battle management in a nuclear traction in the Soviet Union.



You can just see her, testing the crust with her fork, as if every pie pumpkin pie. she's ever made hasn't been perfect Tell her this one will perfect. Tell her this one will be Call home. great, too. Go ahead. Reach out and touch someone.®





Sikh Priests Say Militants Have Unified For Struggle

Page 6

Compiled by Our Staff From Dispat AMRITSAR, India - Four of the five chief priests of the Sikh religion on Wednesday declared that militant groups fighting for a separate Sikh nation in Punjab State had unified, and the priests urged followers to support the "war of liberation."

The priests said that 16 militant groups in India and abroad had achieved "complete unity" and would provide political leadership to Sikhs in place of the "discarded Akali leadership."

The statement was the strongest yet by Sikh religious authorities. It occurred as the separatist cam-

paign is becoming increasingly violent after the government of Prime Minister Rajiv Gandhi took over the administration of the northern state on May 11. Mr. Gandhi dismissed the moderate Sikh government of the Akali Dal, the tradi-tional Sikh political party.

The national government reacted sharply to the priests' statement and vowed to defeat Sikh terror-

The priests' statement "has come as an open and direct challenge to the unity and integrity of the Indi-an nation," Federal Home Minister Buta Singh said in New Delhi.

The announcement was made by four of the five members of the Akal Takht, the religion's highest temporal body. It is responsible for preserving the faith and arbitrating religious disputes.

The announcement from the Golden Temple, seat of the Sikh religion, called on Sikhs worldwide to give tan man dhan, or body, soul and wealth, to the militants' "decisive war for liberation." It said the Indian government was oppressing Sikhs throughout the country. The militants claim Sikhs suffer

discrimination from India's Hin- shiba had initially turned down redus, who make up more than 80 percent of the country's more than 750 million people.

Sikhs, whose religion was founded as an alternative to warring Hinduism and Islam, make up only 2 percent of India's population. But they are a majority in the Punjab, a Forest Line, as the French comparich farming state.

Jaswant Singh of the Damdama that "to the best of our knowledge, Sahib, a major Sikh temple, read all machines produced in our work-Wednesday's announcement at a shops and sold abroad have authorization from COCOM." news conference.

Three other leading Sikh priests, Puran Singh, Kashmir Singh and Sawinder Singh, said they supported the statement. Singh, which means lion in Punjabi, is part of every Sikh man's name.

A formal announcement about the unification of the militants will be made by the groups soon, the



EXTRADITED FANS IN BRUSSELS -- Police vans the Heysel Stadium riot, in which 39 persons were killed carrying 25 Liverpool football fans arriving Wednesday at in 1985. A 26th fan who was scheduled to be extradited the Palace of Justice in Brussels for a hearing before a was still Britain in connection with another case, police magistrate on charges of manslaughter in connection with said. The trial is expected late this year or early next.

EXPORT: French Firm Investigated in Sale of Military Technology to Soviet

(Continued from Page 1) clear." and he added: "They generally reluctant to talk."

COCOM's list of products that cannot be sold in Soviet hloc counchines. tries include milling machines with more than three independent axes, or cutting directions. The number of axes on a milling machine determine its ability to produce complex metal parts.

French government authorities were not available for comment Union in 1976-77. and did not return telephone calls. In a report issued to the press in

Tokyo, Toshiha said its engineers had seen a multi-axis machine made by Ratier-Forest already operating at the Baltic Shipyard near Leningrad when they arrived to install their own, more sophisticated. nine-axis machines in 1983.

U.S. investigators believe Toquests for the milling machines from the Soviet Union, citing CO-COM restrictions. They said Toshiba only changed its mind after it

learned its French competitor had already shipped similar machines. Christian Sarret, an executive of regarded as "racist." ny now is known, said Wednesday

A former executive of Ratier- no problem at all getting approva for that kind of machine," he said. Forest, who was involved in the sale, said he doubted the company He added that the company was broke any rules in selling the ma-"I'm not sure these machines were ever in contradiction with for military applications. The Soviets, he said, did not permit the COCOM." said Robert Vitrat, who at the time was sales director of company to install the machines. One U.S. naval analyst, who Ratier-Forest. He said the compaasked not to he named, said: "I ny delivered "at most" two of the

five-axis machines to the Soviet suspect that if they had a program He said the export license applications were approved by the in-dustry and trade ministries, as well

as France's COCOM delegation.

prove the production and produc tivity" of the submarine propellers, but he emphasized that the Soviets aware that the machines were going had already designed and produced

> very important point," he said. U.S. officials say the machines' the French authorities from approving such a sale.

to make a new generation of sub-marine propellers, the French that if anyone said 'Baltic Ship-equipment was a considerable yard to us, we would have said help."

"As far as I remember, we had machines may have helped "im- export control office.

to he used at the shipyards, but that the parts on their own. it did not know they would he used "No machine has ever invented a new propeller profile, and that's a

Mr. Vitrat acknowledged the Bryen, who heads the Pentagon's

Of Nicaragua Was Not Just a Quip ing to relax our efforts to continue aid to the freedom fighters." WASHINGTON - The Senate The congressman, along with Senator Jesse Hehns, Republican Republican leader, Bob Dole, said

Dole Says Call for 'a Little' Invasion

Wednesday that he was not simply making "a quip" when he was quoted as saying that "a little three-day invasion" of Nicaragua would he welcomed by the people of Central America. The Kansas Republican said

that "I was just expressing an opin-ion" thet President Daniel Ortega Saavedra of Nicaragua was not well-liked in Central America. "It wasn't a quip," Senator Dole said. "It was a very serious inter-view" with Milwankee Sentinel re-

porters. The senator, an unannounced

candidate for the Republican presi-dential nomination, visited Nicaragua during the monthlong congre

sional recess that ended Wednesday. During the visit he met Mr. Ortega. In the interview, Senator Dole

suggested that Mr. Ortega is so disliked by other Central American leaders that President Oscar Arias Sánchez of Costa Rica would not object "if somebody came down there and sort of blew" Mr. Ortega

"I don't mean kill him," Mr. Dole said. Pressed, he added: "Tve got a feeling a little three day inva-

sion wouldn't make anybody un-

any implication that he was advoragua. He said that he did not know whether Mr. Ortega's government could be overthrown in three days top advisers have been killed in a and that it would be preferable if plane crash, dealing a severe blow other Central American nations

to give land to more than one mil-Asked how far he is willing to go lion peasants. in seeking a military solution in the region, he said: "I'm not even sug-An air force jet carrying the min-ister, Marcos Freire, and the advisgesting that. We don't need to do ers crashed Tnesday evening just after taking off from an airport at

Asked again Wednesday about Carajas in the Amazonian state of the invasion comment, Mr. Dole Para. Witnesses said the plane exdeclined to repeat it. But he added, ploded before the crash. Mr. Freire and José Eduardo "I just said some people would not Veira Raduan, superintendent of

leaders would take place at a good- find that too offensive." On Wednesday at the Hotel B Peace Plan Called Flawed Jack F. Kemp, a conservative Royal in Copenhagen, the audience laughed and the three men ex- U.S. congressman, has opened a ist government and amount to a changed witticisms as Mr. Jorgen- campaign to persuade Central dramatic repudiation of Mr. sen asked Mr. Petersen to help him America's leaders that the peace Schluter's effort, since 1982, to do in Mr. Schluter. Mr. Petersen plan they signed last month is "funresponded cordially, but refused.

sponded cordially, but refused. damentally flawed" and "a recipe Mr. Schluter said that the three for disaster" in the region, The inflicted a "severe loss" and degainers in the election all had "ex- New York Times reported from Tegucigalpa, Honduras. tor from Pernambuco, was a year

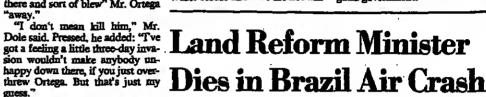
of North Carolina, is the author of a hill to provide \$310 million in assistance to the coutras over the next 18 months. Under a peace plan signed by the leaders of Costa Rica, Guatemala,

El Salvador, Honduras and Nicaragua last month, cease-fires are to begin in both Nicaragua and El Salvador on Nov. 7 and ontside assistance to insurgents in Central America is to stop.

U.S. officials have expreleast lakewarm support for the peace plan. They have said that they might seek additional sid for the contras if the plan, which in chudes pledges by Nicaragua to de-clare an amnesty and lift restrictions on dissent, were to falter.

For Mr. Kemp and other conservatives, the flaw in the plan is that while it calls on the United States to halt assistance to the rebels, it allows the Soviet Union and Cuba





national figure of the governing Brazilian Democratic Movement. By Juan de Onis nal Herald Tribund RIO DE JANEIRO - Brazil's

Mr. Freire, a moderate, was Mr. Sarney's fourth minister of agraniagrarian reform minister and six an reform in less than three years. His predecessors all resigned under fire from landowners. to President José Samey's program He was appointed three months

ago to negotiste with the powerful, landowner associations, which have armed themselves against peasant land invasions

The Roman Catholic Church, which actively supports peasant demands for land, has reported the killing of more than 150 people in land disputes since 1985, including two priests and a nun.

the Agrarian Reform and Coloni-Resistance from landowners, zation Institute, had been inspectlack of funds and shoddy adminising land reform sites in a region tration of the land distribution program have severely restricted Mr. Samey's ambitious target of settling 1.4 million peasants in five Mr. Samey said the accident had ycars

Mr. Freire said last week that clared three days of official mourn- only 17,000 peasant families had ing. Mr. Freire, 56, a former sena- been settled under the program last

MARSHALL: Supreme Court Justice Criticizes Reagan on Civil Rights

(Continued from Page 1) dent in comments off the bench. In his interviews with Mr. Rowan,

mine the school decision — which est president in terms of civil rights. be did. Kennedy was held back by Of Jimmy Carter, he said: "I the attorney general, his brother. think his heart was in the right star? His brother said don't do anything place. But that's the best I can do Just Justice Marshall also gave unflat-

(Continued from Page 1)

popular than the average movie

Justice Marshall: "Is he more

Justice Marshall also told Mr. KOWAN

pocumonia at the Bethesda Naval

Hospital years ago, President Rich-

ard M. Nixon had sought a report

Later he attempted to back off final destination should have kept cating U.S. military action in Nica-"can isolate Nicaragua."

humored public hucheon.

tremist views."

DANES: Schluter to Stay On Despite Election Setback

would give Mr. Schluter his majority, but the Radical Left refused to

Wednesday to take advantage of Mr. Schluter's troubles. He asked

layed surprising strength rallying e-collar workers with its antitax, anti-immigrant message, The Progress Party's nine votes

form a coalition with a party it Anker Jorgensen, 65, a former prime minister and the leader of the Social Democrats, moved boldly

(Continued from Page 1)

move Denmark toward a market economy and restrain spending on maintenance of the welfare state, Given the high political stakes, it

Niels Helvig Petersen, the Radical is hard to think of another country Left leader, to abandon Mr. where such bargaining among three Schluter and add his 11 votes to the 85 votes held by the coalition led by the Social Democrats and the So-

cialists People's Party. This would bring in a new Social-

priests said. The 16 groups are known to in-

clude the Khalistan Commando Force, Khalistan Liberation Force, Babbar Khalsa and Bhindranwale Tiger Force.

The priests also criticized professor Darshan Singh, the head of the Akal Takht and fifth member of the body, for fleeing the Golden Temple on Aug. 8 after he received death threats from militants in the shrine.

On Aug. 17 the four priests had called on the militants to provide leadership for the 16-millionstrong Sikh community in place of the Akali Dal.

The Akali Dal was elected to power to Punjab in 1985, but disssed in May by New Delhi for allegedly failing to tackle the campaign for a homeland in Punjab, in which nearly 1,300 people have died since last year.

The Indian Army stormed the Golden Temple on June 6, 1984, and more than 1,000 people were killed most of them Sikhs. The prime minister at that time, Indira Gandhi, ordered the raid to drive out Sikh militants using the temple as a refuge for attacking Hindus and rival Sikhs.

On Oct. 31, 1984, Mrs. Gandhi was assassinated in New Delhi, and police said the killers were two of her Sikh bodyguards who were avenging the Golden Temple raid. One Sikh guard was shot to death by other guards. Three other Sikhs were convicted in connection with her killing and have been sentenced to he executed.

(AP, AFP, UPI)

.

The Soviet foreign minister, Eduard A. Shevardnadze, meeting in Moscow with Kuwait's foreign minister, Sheikh Sabah al-Ahmad al-Sabah, head of an Arab League delegation.

GULF: Iraq Reports 13 Bombing Attacks Against Iran

(Continued from Page 1) there.

Mr. Webh broke a long silence on the policy of escorting ships in the Gulf after The Miami Herald its formulation. "The United States took an

enormous leap beyond its internaexample," Mr. Webh said. I. Ryzkhov.

In London, the British Broad-In Moscow, Mr. Ryzhkov met a

casting Corp. monitored an IRNA seven-member Arah League deletions about the American presence report Wednesday saying that the gation on Wednesday to discuss there. Soviet Union and Iran had made efforts to end the Gulf War. Tass progress toward agreeing on the reported. The delegation was led by exporting of Iranian oil through the Kuwaiti foreign minister. Sheikh Sabah al-Ahmad al-Sabah. disclosed that he had sharply ques-tioned the policy in private during principle was reached Tuesday in called a confidence vote in Parlis-In Rome, Italy's government ment on Wednesday over its deci-Moscow between the Iranian depnty foreign minister for economic sion to send warships to the Gulf. affairs, Mohammed Larijani, and The decision has aroused opposision to send warships to the Gulf. tional obligations in order to set the the Soviet prime minister, Nikolai non both from the left and from some governi

(AP, Reuters, NYT)

Pages 24 & 23 FOR MORE

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ssessments of Presidents Franklin D. Roosevelt, Dwight D, get re-elected - wait until you're Eisenhower and John F. Kennedy, while praising Presidents Harry S Truman and Lyndon B. Johnson.

The interviews were recorded in recent months for a program on the Constitution called "Searching for Justice: Three American Stories." In a telephone interview Tuesday evening, Justice Marshall said that as far as he recalled, his interview with Mr. Rowan was the only for-

In the telephone interview, the justice chuckled at times as a reporter read back to him parts of the transcript, apparently amused by the interest his comments had

the nomination of Judge Robert H. Bork to the Supreme Court. Judge Bork, who has a conservative judicial philosophy, bas criticized many Supreme Court decisions in which Justice Marshall has joined.

Justice Marshall spoke bitterly of the treatment of blacks throughout American history, including the present. In a speech in May he denounced the "perpetuation of slavery" and other actions by the framers of the Constitution. However, in the interview with Mr. Rowan, he said that with the

addition of the post-Civil War amendments extending rights to blacks, "You'll never find a better Constitution than this one." "The biggest thing we brag about

in this country on the ethical side is that it's the great melting pot," Jus-tice Marshall said. "As 1 sit and look at it now at this late date, I have come in the definite conclusion that if the United States is indeed the great melting pot, the Negro either didn't get in the pot or he didn't get melted down." Asked by Mr. Rowan to rate some of the presidents and their impact on racial justice in his life-

time, Justice Marshall said: don't think Roosevelt did much for the Negro. But I think Truman is going to come out on top. Eisenhower I don't think did

re-elected and then do it. And then he got killed. "But Johnson, his plans were unbelievable, the things he was going to do. But he was too far off for Negroes and civil rights, he wasn't thrown out because of Vietnam,

-Mr. Rowan: "The bottom?" Justice Marshall: "Honestly, I didn't have a chance."

ald Reagan?"

he thought Johnson was the great- country ever had in the polls."

think he's down with Hoover and that group. Wilson. When we really

There followed this exchange:

Mr. Rowan: "What about Ron-

Justice Marshall: "The bottom."

that has been the center of numer-

ous land takeovers and rural vio-

NATIONS: 6 Dots on Europe's Map Make Small Talk

nallest," said the wife of one of et Union.

the Luxembourg delegates. "It's a "In a world in which power, strange feeling to be the biggest." arms and the supremacy of force Vatican City, which has a resi-dent population of fewer than 400 experience of the small countries is and which was not represented at more important than ever," said the meeting, has a secure identity Antonieta Bonelli, director of San Last year, about three million tourand a steady income as the center Marino's department of foreign re- ists traveled the 20 kilometers from of world Roman Catholicism. But the other mini-nations have with less territory and no weapons, laden with pottery and trinkets, to take someone bigger into ac- you can live happily."

count and get by on their wits. As in the past. San Marino's sur-Malta lives in uncasy proximity vival depends on harmonious relato the government of Colonel tions with Italy, which surrounds it. Moammar Gadbafi in Libya. In the 1950s, when the tiny republic Liechtenstein depends on Switzerelected a Communist government land for its defense, foreign affairs, and opened a casino, Italy sent a transportation and telecommuni squad of carabinieri to blockade its cations. Andorra has instorically 31-kilometer-long frontier with San kept its antonomy hy playing Marino. More recently, because of France against Spain and by being unstrategically placed at the top of its open frontiers with Italy, San Marino has had to take on some of an inaccessible mountain range. the tax and other obligations of the European Community without get-

The principality of Monaco, with about 28,000 people packed into 1.81 square kilometers, affirms ting many of the benefits of membership, Mr. Giardi said. its independence under Prince Andorra, too, is concerned about

Rainier 3d but tends to be regarded by France as an eccentric municiits relations with the 12-member ununity now that Spain has pality on the Côte d'Azur. San Majoined. Its prosperity is based in a large measure on selling duty-free rino claims to be the world's oldest goods to visitors from France and Spain. republic as well as the smallest, with only 60.57 square kilometers of territory and 24,000 inhabitants.

Once, much of Italy was divided Most of the 12 million people who visited Andorra last year were into city-states like San Marino. Being poor, isolated and difficult to from the neighboring con They take home things like cheese mountain in the Apennines, the and dairy products - the products are shipped to Andorra with the aid of EC export subsidies and are therefore legally supposed to he consumed within the country - as top. Eisenhower I don't think did Today, San Marino has official well as luxury goods, cigarettes, h- single one. The proof is that ever anything, except to try to under- relations with more than 50 coun- quor and electronic equipment. If body wants to go and live there.

tries, including China and the Sovi- the community decided to choke off that trade, Andorra's economy would be ruined.

Like San Marino, Andorra has found an economic salvation in tourism, but this raises the question of preserving national identity. lations. "We have shown that even Rimini to San Marino to return most of it mass-produced elsewhere. "I sometimes wonder whether we will have to turn the whole place into a parking lot," Mr. Giardi said.

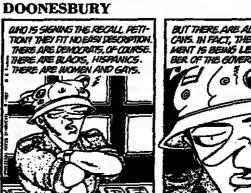
> Liechtenstein owes its wealth artly to its status as a tax haven for thousands of foreign companies that have put up brass plates in Vaduz, the capital, partly to tourism and partiy to the development of light industry, such as the manufacture of false teeth.

Prince Franz Josef 2d, the last of the Habsburg monarchs, has reigned since 1938. The prince, 82, has turned over the day-to-day running of the country to his son. tenstein has no army, 5? po-Lief iceman and one ambassador, who is based in Bern.

Etienne Franzi, the delegate from Monaco, was enthusiastic about the charms of his haven for the wealthy.

Apart from a situation in which many of the 5,000 native Monaco residents find if hard to afford the place, is there anything wrong with life in there? "Honestly," Mr. Franzi said, "I can't think of a single one. The proof is that every-

invade on top of their fortified San Marinese managed to avoid the attention of invading armies by keeping order at home and staying out of other peoples' disputes.





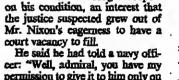






の語る問題

777-2



et rid of him." Mr. Rowan: "Yet he's been one permission to give it to him only on In response to a question, he said of the most popular presidents the one condition! that you put at the bottom of it, quote, 'Not Yet.'

they just used that as an excuse to get rid of him."

mal news interview he had given since President Johnson named him to the court in 1967.

aroused. But be said, "I'm not going to elaborate on anything." He also declined to comment on

In his interview with Mr. Rowan,

ittle' Invasion t Just a Quip

and to the freedom figures And to use incluming light in the congression light in the second of North Cardina, ste • bull as provide Silo assistance to the course text is months.

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national figure of the sec Brazilian Denuscratic Merce Mr Freire, a mudenien Brazil's Saracy's fourth minute de and six led in a the blow STATISTICS. THE THE

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Mr. From and last wit: Although scientists continue to debate exactly only 17 [NG pressr: first why and how it works, the process of applying been scilled under the part electricity to aid in the repair and growth of bones soon may be extended to an array of other problems, ranging from osteoporosis 10 063 TRANSA-ST 8013.8was # year

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other problems, ranging from osteoporosis and osteoarthritis to spinal fusions and skin leagan on Civil Right ulcers.

Austrie Marshall the program Developments 13 Tights. and: "1 ie nyst Suptra Marchall in the Takeover bids, joint ventures, international Kow an that the value acquisitions and knowhow sales are prolifer-provenent of the Resultating in the carbon business — but that is CAP des Hrapital trait and Prisit because carbon is becoming high-tech. a Romand M. Novo that weather the first contain on, an atem 10.101 the many constances Mr. National Next Issue

At Home

One of the only sure bets at the Frankfurt Auto Show opening Friday is the world debut of the BMW Z1 roadster. But some observers think Ferrar's F40 — the fastest road-going our available - might steal the show.

For Mr. Kennp and other satives, the flaw in the plant while it calls on the Unit's Safer flying is one of the announ-to halt assistance to the head of a cally advanced device for airplane cocapu-to allows the Source Unit cally advanced device for airplane cocapu-te allows the Source Unit called head-up display. The device in tests has the two continuer to supply the second pilots to land manually in conditions mian government to the the that would have closed an airport.

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He was appointed the part of t

Clocking in on Platform 6 at 7.40 A.M., office

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DEPARTMENTS

By Thomas Netter

ENEVA - In a last-minute hitch that could derail an historic agreement to save the Earth's vital ozone layer, the United States - and several other industrialized countries - have added potentially divisive proposals to the agenda of an international ozone confe Montreal, environmentalists said Wednesday.

A new U.S. proposal, said to come from the White House and backed by anti-regulatory elements in the U.S. departments of Commerce and the Interior, would require 90 percent of the world's manufacturers of ozone-destroying chlorofinorocarbons, or CFCs, to ratify an agreement before it comes into force, according to David D. Doniger, an attorney at the Natural Resources Defense Council in Washington.

This measure, which Mr. Doniger said has the support of the Soviet Union, would allow Moscow and almost any other country to effectively veto an agreement because the Soviet Union produces 10 percent of world CFC production.

But the new U.S. proposal, raised during prelimi-nary meetings in Montreal this week, is only one of several proposals that could make next week's meeting difficult, Mr. Doniger said. The European Com-munity has proposed eliminating an important cate-gory of CFCs from the accord and humping all 12 member state's production together, so a production

THOMAS NETTER is a journalist based in Geneva.

Environmentalists Fear Last-Minute U.S. Proposal Could Derail Agreement

Nations Divided on Ozone Accord

Technology Quan

Herald Eribune.

decrease by one could allow an increase by another, Mr. Doniger said.

At issue is whether the azone layer can be protected by an international treaty or whether alternative means, such as individual measures involving sun-glasses and hats as proposed by some anti-regulatory U.S. officials, should be used.

Ozone is a special form of oxygen that reaches high concentrations in the stratosphere 10 to 30 miles (16 to 48 kilometers) above the Earth. This protective layer permits life on Earth by filtering the sun's harmful ultraviolet rays. If unimpeded, these rays can cause skin cancer, eye problems and reduced crop yields. In the earty 1970s, scientists found that certain chlorine-based chemicals were gobbling up the ozone layer at an alarming rate.

These chlorofluorocarbons stay intact until they drift into the stratosphere where they disintegrate, their fragments destroying ozone. The gases are also believed to contribute to the warming of the atmosphere, the so-called greenhouse effect that results

when gases prevent radiant heat from the sun from escaping the Earth's atmosphere. CFCs provide the spray in many acrosol spray cans,

the cooling agents for refrigerators and air condition-ers, the cleaning agents for computers, and the foam in foam rabber.

In 1978, the United States and Canada banned the use of CFCs in aerosol spray cans, causing a tempo-rary decline in emissions. Most Enropean countries, however, acted only to prohibit the construction of new plants producing this chemical. The chemical is still widely used for other applications. Per year, industry produces about 600,000 metric tons of CFCs. The discovery of a growing "bole" in the ozone layer over Antarctica and parts of Switzerland that scientists suspect is caused by CFC emissions, has given new urgency to the issue.

In the most thorough study to date, a team of 150 experts organized by the National Aeronamtics and Space Administration is conducting flights in the area this month to determine whether the "hole" is being caused by industrial pollution. The hole over the Antarctic appears each year in mid-September at the end of the southern winter. The amount of ozone decreases to less than half its normal density before returning to normal levels in October.

Other scientists are studying the Arctic skies, where a transitory thiming of the ozone layer was detected in February and March last year.

The meeting in Montreal, which is organized by the United Nations Environmental Program, is seeking to put the finishing touches on a tentative agree

Continued on page 13

Over South Pole, a hole in stratospheric ozone has expanded to cover an area as large as the United States. **Ozone protects the Earth**

from harmful ultraviolet rays.

Ytterbium? Or How a Typo Set Off Scientific Scramble



By James Gleick

ERTAIN American scientists wasted some time recently trying to make a superconductor out of the wrong element. They were chasing a phantom - a typographical error by the physicist, Ching-Wu Chu. Certain American scientists believe that the error was no accident.

Mr. Chu, 36, stummed his colleagues and competitors in laboratories around the world last February by announcing the discovery of a new material that would make the phenomenon of superconductivity commercially feasible at last. But he refused to name the material before the official publication of his discovery, which was weeks away.

His claim set off a stampede. For experimenters struggling to take part, a hellish month followed — a month of tense days and sleepless nights. A practical superconductor, a material through which electricity flows without losing even the smallest fraction of its energy to resistance, would be a turning point in scientific history. Scientists were glimpsing a new age of electricity — a world of absurdly cheap power and trains floating in the grips of magnets. Enormous corporate interests were al-ready at stake. Patent lawyers were chapteroning the research teams like pilot fish surrounding sharks.

Page 7

Thursday. September 10. 1987

So Mr. Chu's incomplete announcement was every scientist's nightmare: the breakthrough of a generation, and someone else had the secret formula

"It was gruesome," said Robert J. Cava, a member of a team at the American Telephone & Telegraph Co.'s Bell Laboratories, one of the major institutions near the forefront of the research. "There was a lot of pressure on us to figure out what was going on.

The Bell researchers say they remained in the dark until the last days before publication, but other scientists heard a provocative rumor: that the esoteric element ytterbium was the key to the new superconductive material,

Ytterbium was indeed the element named in the manuscript that had been submitted by Mr. Chu's team, relative unknowns at the University of Houston, to Physical Review Letters, the premier journal for reporting breakthroughs in physics. But when the journal appeared on March 2, the final paper named a different element, vitrium,

Mr. Chu had pleaded with the journal for special handling, insisting on secrecy, fearful that the editors would leak. "Which we new know they did - like a sieve," said Arthur J. Freeman, a theoretical physicist at Northwestern University. "Only they leaked ytterbium instead of yttrium. I had heard for weeks that the material was ytterbium, and now I know where it came from."

He want he had had a the New technologies are aiding archaeologists in are when the planet of the pla 1914 611 als (hr better is and Nills tion. These and other issues on Dec. 15, in - TechnologyQuarterly.



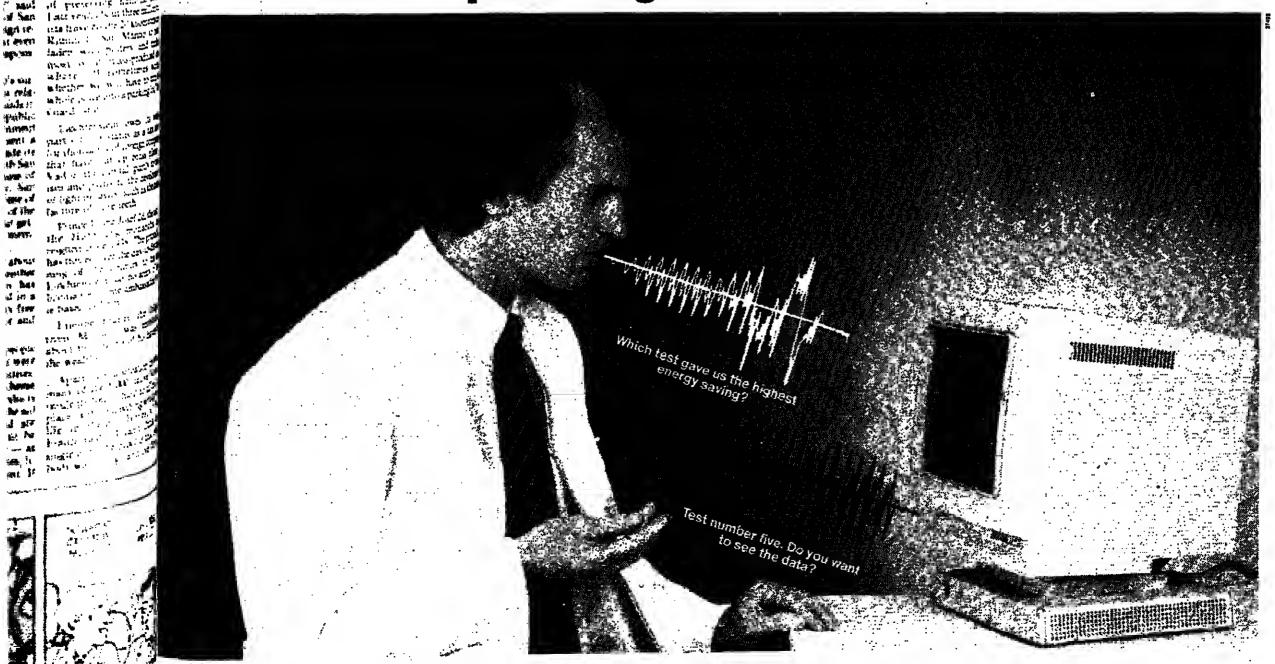
Ching-Wu Chu in his superconductor lab at the University of Houston.

JAMES CLEICK, a science reporter for The New York Times, is the author of "Chaos: Mak-ing a New Science," to be published by Viking in October.

As news of the yttrium-ytterbium affair

Continued on page 12

* Map Make Small R the contracts de de si This computer needs no keyboard for communication. wordshifter and leaf It understands plain English.



VEG is developing an automatic speech recognition system by which computers of future generations will correctly react and answer to spoken instructions. This dialogue with computers is becoming more human

Innovative technology from AEG. Here's more:

AEG uses the "Chip on **285** Glass" technique for LCD type displays. Advantages: the display and driver electronic syslem are combined into a single unit, so the number of contact points is reduced to a minimum. This leaves the display back clear, allowing optimal rear illumination. Result: high briltiance at any time of day.

AEG supplies efficient electronic systems for environmental protection urposes: contaminants contained in both air and water can be automatically identified and analyzed, and there can be exact control of processes in waste incineration, exhaust gas purification or water treatment. In the event of operating trouble these "intelligent" microcomputers automatically contact the central system via the phone.

AEG's grouped networking is contributing to the economic use of the radio = bands. Radio channels are bundled and managed by a computer, then allocated to subscribers as required. Communication bottlenecks are a thing of the past. This technology ofters a number of characteristics not found in the usual radio networks. Grouped networking from AEG already in successful operation in Schiphol airport Amsterdam and under construction in Frankfurt.

AEG

INTERNATIONAL HERALD TRIBUNE, THURSDAY, SEPTEMBER 10, 1987

Technology At Home



Sensory Assault

WHAT'S next for the modern flea-bitten pet? An electronic collar that will break the eardrums of any pest coming within a few feet.

Elexis Corp. of Miami has developed just such a device — an electronic collar for dogs and cats that emits a high-frequency sound that disrupts the sensory system of fleas and ticks.

The collar, called Microtech, employs a technology known as pulse-modulated burst circuit that creates a high-intensity sound beyond the audible range of dogs and cats but deafening to fleas:

"To a flea, it sounds like a jackhammer and that makes them run for cover," said Dr. Robert W. Stone, chief of staff at Knowles Animal Hospital in Miami.

Dr. Stone said that in bospital tests the electronic collar proved to be 60 to 90 percent effective in reducing the number of fless on pets. (NYT) of fleas on pets.

Contact Lenses To Throw Away

VISTAKON Inc., a Florida-based subsidiary of Johnson & Johnson, has begun market testing of disposable contact lenses. The lenses, which are 52 percent water

and made of standard contact-lens plastic, require no cleaning and can be worn for about a week before being discarded.

The company estimates that using the disposable lenses would cost an average \$520 a year. The lenses are being sold in Florida in a six-pack and are available for oearsighted correction only. The U.S. Food and Drug Administra-

tion approved the lenses as disposable products in July. They had previously been approved for extended wear. (AP)

Frankfurt Auto Show to Offer Some Souped-Up Surprises

By Michael Rutherford

ONDON - Major European motor shows are unpredictable events renowned for their last-minute unveiling ceremonies and surprise an-

Take, for example, the Geneva show last March: Aston Martin revealed its new, razorsharp Lagonda to a stunned press and public: a Bentley Turbo R. built by Britisb coachbuilder Hooper was unveiled and immediately hailed as the "most expensive car ever to be produced for private sale." And Chrysler caught everyone with their guard down by announcing the brave (some might say foolish) decision to re-enter the fiercely competitive European mar-ket, where the Chrysler image is, at best, tarnished.

If the comparatively tame and unexciting Geneva show was capable of springing those kinds of surprises and more, it is anyone's guess what might bappen at the 1987 Frankfurt show, which opens on Sept. 11. Frankfurt, probably the event in the European motor show calendar, is likely to be full of surprises. Not many people can safely predict exactly what will go on show. In fact, one of the only things that is 100 percent certain to happen at Frankfurt is the world debut of the BMW Z1 roadster. The company is reportedly fed up with scoop photographs, assumptions, claims and doubts surrounding the car and has, therefore, decided to "put an end to supposition and

rumor" by displaying the car on bome soil. The ZI, officially described as a "limited edition, mid-engined sports car," will go into production and on sale next summer. It is the brainchild of a small, young BMW offshoot, BMW Technik GmbH, which was set up by BMW AG as an autonomous operation with the objective of developing forward-looking products and processes.

The bold claim from Bavaria is that the Z1 is "light years ahead of the average souped-up mass-production car." It is based on a monocoque-style load-bearing skeletal steel chassis to which thermoplastic panels are hung. The plastic outer skin and bumpers/fenders help to keep the weight of the car down, and resistance to minor damage is assured, BMW says.

Although the two-seater Z1 can, according to the manufacturer, be driven in open-top form with scarcely any turbulence to disturb the occupants, there is an easy-to-use, leak-free soft top.

Beneath the skin, the Z1 boasts a variety of features lifted from current, highly successful BMW saloons. Initially, it will be powered by the new BMW 325t's six-cylinder engine. The low-pollution version with catalytic converter has "of course" been chosen, says BMW, which claims that the power pack accelerates the car from rest to 62 miles per hour in seven seconds.

Although BMW calls its new offering a mid-

engined car, the straight six engine sits just behind the front axle, which gives a near 50/50 weight distribution. Power reaches the rear wheels by way of a five-speed manual gearbox and a prop shaft running in a rigid aluminum tube to the rear differential, which is also made from aluminum.

The suspension uses BMW 3-series from spring damper struts and, at the rear, a Z arm layout of entirely new design. Handling is said to bave a hint of go-kart immediacy about it. With its wide track, low center of gravity and 49/51 rear axle load distribution, the Z1 has "more than adequate top speed," and every-thing needed for safe, predictable road behavior and abundant driving pleasure, says BMW. The price of the Z1 is likely to be about £25,000 (\$40,000) when it goes on sale next summer. At that price, the car will be a certain sellout, particularly as only six a day will be produced. Launched to the world's press a couple of months ago, the Ferrari F40 (working title, Ferrari Le Mans) seems certain to take the

stage at Frankfurt and might just steal the show from the BMW Z1. The public will see the F40 for the first time at Frankfurt, and what they will see is the fastest road-going car available from a manufacturer of production cars. Admittedly, that claim has been made by Ferrari itself — but few would argue. The F40's official maximum speed is a cool 201 mph, and acceleration from

rest to 124 miles per hour takes a mere 12 seconds Never before has so much overt racing tech-nology been applied to a road car. The F40 (F

By John Holusha

and distinctly smaller Riviera model was

introduced in late 1985. Buick decided to

compensate for the lost bulk with gee-whiz

In place of familar controls for the radio,

heater, fan and air conditioner, the car's

instrument panel was dominated by a

touch-sensitive cathode-ray tube. Drivers

would touch one section of the screen to call

up command displays, then tap other spots

to change the station, lower the temperature

or check gauges. But drivers found the screens confusing and difficult to operate. And they had to take their eyes off the road to tap just the

right spots on the screen in just the right

sequence. "The Riviera's setup does nothing

that a conventional array of knobs, buttons

electronics.

IGH TECH is not the answer to

every problem, officials of the

Buick division of General Mo-

tors have learned. When a new

for Ferrari, 40 because it celebrates 40 years of supercar" production) has a stark interior, tubular steel chassis with carbon fiber reinforcement, and also features Kevlar, a stronger-than-steel fiberglass material more commonly used on Formula 1 racing cars.

Rubber bag fuel tanks are also part of the F40 package, along with an automatic lowering suspension system. Beneath the car's louvered rear window, the

longitudinally mounted V8 is clearly visible. It has twin turbochargers that help to produce a massive 478 bbp at 7000 rpm. Only 450 F40s will be built, with deliveries

being made starting in the spring. The V8 engine has the ability to meet U.S. emission requirements.

The basic price of the car in Italy is 270 million lire (\$201,000), plus car tax and value added tax. For that money, buyers will be invited to select a driving seat that matches their particular body shapes. And they will also go through a two-day "familiarization session" with their cars.

As if to prove that state-of-the art technology is not the sole property of the dream-car manufacturers like BMW and Ferrari, Ford will be tempting Frankfurt visitors with its own brand of more affordable high-tech wizardry. The company's latest showpiece, designed and, built jointly by the U.S. Light Truck division in Dearborn, Michigan, and the Ghia design stu-dio in Turin, is the HFX Ghia Aerostar — a socalled "family driving machine" for the next century

Ford is serious about the HFX project, so

Final Score at Buick: Buttons 1, High Tech 0

much so that \$7.2 million and 27 months have already been invested in it.

The HFX is a six-seater, van-like vehicle powered by a three-liter V6 engine driving through a four-speed automatic transmission to the rear wheels. The suspension has a conventional layout, but uses air-springing from the Lincoln Continental and liquid-filled bushes for insulation of vibration.

The HFX's all-disc braking setup incorporates Bendix anti-lock and anti-spin devices, while the rack and pinion steering bas speed variable assistance provided by an electric mo-

The Ghia-built steel body (which retains the basic shape of the standard Acrostar) has flusb glazing and sensor-controlled radiator louvers. As might be expected, interior gadgetry is



extensive. There is a dot matrix instrument pack with a choice of three gauge styles, and a touch-sensitive screen for controlling air conditioning and trip computer functions. At the touch of a switch, rear windows can be "fogged" for privacy. A laminate using liquid crystal technology is responsible for the fog-ging process, which, sensibly, cannot be used on the windshield or front-door glass.

No less that 26 computers on board the Aerostar HFX are capable of adjusting/memorizing seat settings, seat belt mountings and even pedal settings.

Among other manufacturers. Alfa Romen will finally put on display the much talked about 164; Audi Volkswagen is bound to ptil the wraps off something (the new Scirocco or Audi 90 Coupe perhaps?), and Jaguar, keen to establish a stronger foothold in West Gemis-ny may also supprise engryone by choming ny, may also surprise everyone by showing something for the first time. The fully convert-

ible XJS has already been spotted undergoing "secret" testing in Britain.

reveal new and exciting models on home ground. The new Mercedes SL sports car, for example, should make its debut at the show although nobody within the industry is putting money on it. A safe bet is that Opel will show the nippy Corsa GSi, which is about to challenge current offerings in the competitive hatchback sector.

Rivalry will be intense among Japanese manufacturers at Frankfurt, Honda and Mazda are racing each other to be the first to introduce four-wheel steering on cars in European showrooms. The latter has also just mleased a convertible RX7 in Japan, which means a European debut for the car is due, Toyota, which is rumored to be looking seriously at establishing a European production plant similar to the Nissan factory in the northeast of England, may be introducing several important new variants at Frankfurt. The new Corolla range is the most significant.

MICHAEL RUTHERFORD is news editor of Motor, the London weekly magazine.



buttons that could be operated by feel. Within the screen, it made the touch-sensitive areas larger --- easier to hit. But it also added screens to control a tape player, cellular telephone and an appointment calendar

"There may be no good way to do it, with all there is on the car," one Buick engineer commented.

v 1987 The New York Times

Mercedes and Porsche are also expected to Passing Taste To

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BOES AT A LOS ANGELES County Fair of stid the gold medial to a white wante entered ignes of San Jose What they did not know

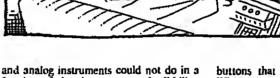
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Most de wines have cisulation dive of t heat, but t evaporates aromas. As

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invessionses, also amount as ultrafiltration Balong a porcus cylindrical membrane. Bee salong the membrane, rather than through issus and very small pores can be used. Since State the smallest me locales, they pass three abrane leaving a strupt wine concentrate by Tsto the point where I'm filtering molecule Scheatomic level "said Barry Gockow, An eadds the water back, some immented junce, to create Ariei's nonsicolis ad sandwiches two membranes -- one a der applymer and the other thicker and more pos a mentiveness and a high-pressure flow. T trasies intrusive than many used in modern alany Leigon. Ariel's president. "The wine r ale alcohol," he said.

For Anotherder



fraction of the time one spends diddling with this microcircuited mess," Car and Driver magazine observed in a review. All the interior functions were controlled

by the screen, so replacing it would have been expensive. And providing an electron-ics officer, as the air force often does, didn't seem very practical.

So Buick replaced the areas of the screen that control different functions with raised

New materials give wing to the creativity of designers.

of Innovation

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potential applications. This approach coupled with the cooperation of our customers is resulting in benefits, through versatility and efficiency, to industry and individuals.

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liber Optics

iGENEVA. A NEW fiber optic television and and now being installed throughout the city Francy of broadcast programs and computer our years.

big fiber optic and coaxial cables, a firm cal BECENEVE SA, and formed by private inverog General with a net of cables that with h up to 30 local and foreign radio pro ed Forces Network and the Voice of Americ ally also provide up to 40 television channel ws Network from the United States and ionizon from the Soviet Union.

won't cost much, officials say. View and to one channel of French-language S mes blurry transmissions of the three television may find it a real bargain r optic network is also expected to link in Geneva, which has the highest dens is Europe because of its well-develop and business interests.



alking Phones

NDENT PAY PHONE operators in the ing to new technology to compete wi operating companies. Already a re pay phones ready to give callers w ent advertising messages and oper deo displays. Others accep: credit ies and let users choose among Pay phones are also be

busy to wait, the best yet is Mer tinue to dial a busy telephone left the pay phone. The phone e caller and then redials the part

1. 64

Technology Business



THE IDEA OF A PERFECTLY flat-surfaced color picture note was tested, and reluctantly rejected as being far too complex, in the 1950s when color relevision was young. Now, using an advanced design that was originally developed for use in military avionics, Zenith Electronics Corp. has returned to "flat technology" with a new color monitor for computers. The flat (appendix) monitor which must on relating the The flat technology monitor, which went on sale in the United States last month, appears to offer significant advantages over conventional cathode ray tube (CRT) monitors in rightness, contrast, color fidelity and reduced glare. The flat technology will also be incorporated into some of Zenith's color television sets next year, a spokesman for the Glenview, Illinois, company said. (NYT)

the style sports car, the ZI.

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Passing Taste Test

JUDGES AT A LOS ANGELES County Fair recently awarded the gold medal to a white wine entered by Ariel Vincyards of San Jose. What they did not know until later was

that the wine, Ariel Blanc, a blend of chenin hlanc and riesling, was a de-alcoholize

> Most do-alcoholized wines have been made with distillation methods that drive off the alcohol with heat, but the heat also evaporates flavors and aromas. Anel instead uses a cold filtration process called reverse osmosis, a technology originally developed for desaliniz

In reverse osmosis, also known as ultrafiltration, the wine flows along a porous cylindrical membrane. Because the liquid flows along the membrane, rather than through it, very high pressures and very small pores can be used. Since alcohol and water are the smallest molecules, they pass through the membrane, leaving a syrupy wine concentrate behind. "It's to the point where I'm filtering molecules, particles just above the atomic level," said Barry Gnekow, Ariel's wine maker, who then adds the water back, sometimes with a small amount of unfermented juice, to create Ariel's nonalcoholic wines, Ariel sandwiches two membranes - one a dense but thin film polymer and the other thicker and more porous to permit greater retentiveness and a high-pressure flow. The result is a

Futuristic Cockpit Device Enhances Safety in Air

By Mark Patiky

ASHINGTON --- Changes in aircraft cockpit design are slow in coming. Only within the last four years, for example, has electronic flight instrumentation come into its own on the airliner flight deck.

So, despite decades of space age promise, commercial aircraft are finally achieving a level of instrument sophistication that Apple Computer Corporation has been showing grade school students since the late 1970s.

NASA designers and engineers say the cockpit of the future will take far greater advantage of current computer graphics capability, creating full color, visual images rather than pure digital instrument indications in vogue today.

Using compact, airborne radar and infrared sensors plus data up-linked from the surface, pilots will see actual representations of land masses, hills and valleys. They will see runways in proper relationship and other nearby aircraft with far greater precision than the unaided human eye. And the computerized flight deck will display equally well in visual or instrument conditions.

Although this future may be sometime off, a device called HUD, for head-up

display, is here today. HUD offers a new dimension in aircraft instrumentation and a level of sophistication that promises a major enhancement in air safety. The device allows pilots to continually look outside their cockpit while seeing instrument indications superimposed on the exterior view. In the current high density air traffic environment, the op-portunity to continuously scan outside, dramatically decreases the chances for midair collision.

In light of the recent increase in report-ed airliner near-collisions, HUD takes on particular significance. High density airport traffic operations demand close attention to the outside environment. This is exactly the time when a pilot must maintain continual reference to instruments inside the cockpit. HUD offers a solution by presenting instrument indications against a clear external view. In addition, the device offers facility

for making low visibility approaches in the worst weather conditions, day or night. HUD has been demonstrated totally safe in allowing pilots to manually land in conditions that, previously, would have closed an airport or required costly auto-iand capability.



Administration approval and certifica-tion for HUD on the Boeing 727. Last month in conjunction with laser gyro, inertial navigation systems, a standard long-range navigation aid already aboard many domestic and trans-oceanic aircraft, the system was certificated to assess an aircraft's encounter with windshear

and provide guidance for flying through

Jet Electronics and Technology, in Grand Rapids, Michigan, is also manufacturing a similar though slightly less sophisticated system for corporate aircraft

Essentially, HUD is a small glass win-dow that sits on top of the pilot's glare shield. A series of instrument symbols are projected onto the glass with a virtual image focused at infinity. This allows the pilot to see the outside view plus instrument indications superimposed, without shifting his focus.

On most conventional instrument approaches, the pilot is looking at his instruments. As he descends to the published minimum safe alutude, possibly 100 feet (30.4 meters) above the ground, he must look up and search for visual clues.

A normal human being takes four to five seconds to refocus and mentally assimilate the new image. In this case, the aircraft will be 50 feet lower before the pilot has responded, therefore, reducing safety margins considerably. HUD elimi-nates this lapse by maintaining the pilot's view and focus at outside infinity for the entire approach.

Windshear enhancement is also part of the order for Alaska Airlines and Federal Express from Flight Dynamics. Not only is the pilot warned that windshear condi-

tions are impending but flight guidance information is provided for a safe recov-

Page 9

ery when the full windshear is detected. But despite its full availability, HUD has been slow to take off. Currently, Federal Express is installing six systems to allow its overnight package service to fly more regularly into often fog-bound West Coast airports. Alaska Airlines, with similar requirements, has recently purchased cight systems with 12 more on order. The "bottom line" in airline operation is generally the deciding factor where

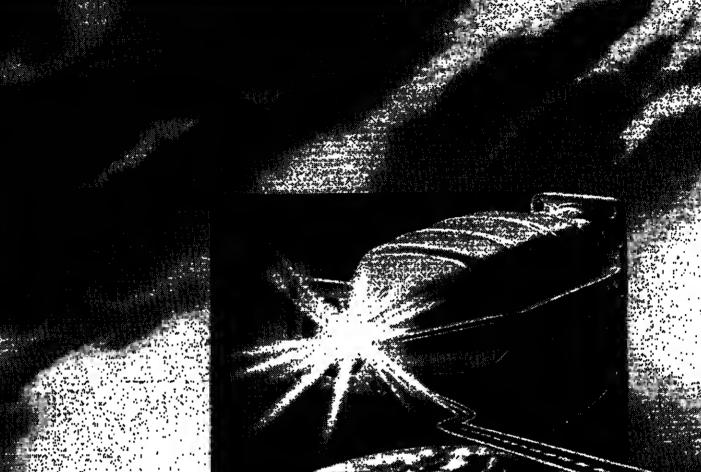
safety enhancements are concerned. The Flight Dynamics system could cost between \$170,000 to \$330,000, depending on the retrofit prohlems. JET's device for corporate aviation sells for about \$100,000, without any consideration for the replumbing.

It is, therefore, unfortunate to learn that safety has a price tag, particularly when the promise of tomorrow is already on the suppliers shelves. As the two air-lines prove the value of HUD, hopefully other operators will follow.

MARK PATIKY, who writes on aviation is the author of "Investors' Guide to the Strategic Defense Initiative," to be pub-lished next month by KCI Communications in Arlington, Virginia.



Currently two U.S. companies are developing and manufacturing commercial head-up displays. In 1985, Oregon-based Flight Dynam-



Poul Wool

cess less intrusive than many used in modern wine makin said Larry Leigou, Ariel's president. "The wine is the flavor, not the alcohol." he said. (NYT)

Fiber Optics

IN GENEVA, A NEW fiber optic television and radio network now being installed throughout the city is to open up a huge variety of broadcast programs and computer links over the next four years.

Using fiber optic and coaxial cables, a firm called 022-TELEGENEVE SA, and formed by private investors and the city, semmeshing Geneva with a net of cables that will provide Steners with up to 30 local and foreign radio programs includin franced Forces Network and the Voice of America. It will multiple also provide up to 40 television channels, including Gable News Network from the United States and something Called Gorizon from the Soviet Union. "Telene" won't cost much, officials say. Viewers ocustomed to one channel of Prench-language Swiss television and sometimes blurry transmissions of the three main channels The fiber optic network is also expected to link up the uters in Geneva, which has the highest density of high-tech Europe because of its well-developed service. and business interests. Thomas Netter

Polly want a cracker and 25¢

Talking Phones

INDEPENDENT PAY PHONE operators in the United States are turning to new technology to compete with the established Bell operating companies. Already available on a limited basis are pay phones ready to give callers verbal instructions, present advertising messages and operate with computerlike video displays. Others accept credit cards, operate in laxis and limousines and let users choose among competing long-distance services. Pay phones are also being deployed on

Trains, jet aircraft and ships. For people too busy to wait, the best yet is Message Phone Inc., which will continue to dial a busy telephone number long after the caller has left the pay phone. The phone records a message from the caller and then redials the number for up to two hummeric incommission is established and the recorded hours until a connection is established and the recorded NYD message is played.

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INTERNATIONAL HERALD TRIBUNE, THURSDAY, SEPTEMBER 10, 1987

A CONTRACTOR MARINE and the state of the state of the

TechnologyComputers

By Barry James

bulk on many alternative markets, the embar

go has increasingly been seen by manufactur-

ers as an anachronism that hurts them more

Recently, for example, the Soviet Union was reported to have bought a large order of IBM-

compatible PCs from Peru to augment its own

"If the Soviets need computers, they can buy all they need without any trouble," said Sey-

mour Goodman of the University of Arizona, a

leading Western expert on the use of micro-

processors in Communist societies. "Some

oosening up [of export restrictions] was neces-

sary," he said in a telephone interview. "De-

these machines into use as a common commod-

ity. The technology is so widespread that it has

The opposing view is that anything that

makes it easier for the Soviets to acquire com-

place where it does minimal military damage,"

said Richard N. Perle, who resigned last March

as a U.S. assistant secretary of defense for

international security policy, a position in which he had strongly opposed the transfer of computer and other advanced technology, to

the Soviet Union. Mr. Perle has not altered

He said in a telephone interview that be

leared the relaxation of computer exports

would lead eventually to the setting up of joint-

become impossible to control.

that view.

feehle supply of home-built computers.

Soviet Union.

than it does Moscow.

PCs Are Still Waiting At Executives' Door

By Sherry Buchanan

ONDON - The personal computer has yet to make it into every executive suite. The delay stems from the feeling among some status-conscious managers that typing isn't macho enough. Others are plain scared of new technology and will not bother learning how to use a personal computer, especially since their secretary can do it for them.

Although there are enthusiasts among executive personal computer users, others are finding they might have been better off getting one for their secretary rather than for themselves. The 1987 June survey by Intelligence Electronics Europe, a Paris-based market research firm, shows that, although it is on the increase, only a minority of white-collar workers in Europe use a personal computer at work. The same is true of the United States, where an estimated 18 percent of the whitecollar work force used computers in 1986. Intelligence Electronics' figures for Europe include secretaries, clerks and managers.

On average, in 10 European countries, 8.3 percent of white-collar workers used personal computers in 1986; 9.8 percent in Switzerland, 9.6 percent in Britain, 8.6 percent in France and 7.8 percent in West Germany.

Those executives who do use computers have found them to be a mixed blessing. According to the 1987 survey, "Personal Computing: Executive Productivity Survey, conducted by Business Computing & Com-munications, a London publication, 75 percent of managers surveyed said using a personal computer improved their productivity and 50 percent said they believed the personal computer helped them make better decisions. But more than 50 percent said that having a personal computer meant they had to do work their secretaries used to do and 36 percent were not sure it helped in decision-making.

"Most managers said that the use of the personal computer improved their productivity," said Ian Meiklejohn, associate editor of Business Computing. & Communications. "But it wasn't all positive. For many, it meant taking on additional activities that were mainly secretarial or clerical. Some didn't mind, hut others didn't welcome the change."

As one British management consultant put it: "I have had no secretarial support for over two years. I may yet weave my own papyrus and grind my own ink."

Part of the reason for few executives using personal computers is that it does not belp them do their job. Previous research, by Booz Allen, has shown that executives spend most of their time in meetings and oo the phone, not glued to computers. In the British survey, 64 percent of managers surveyed said they only used their machine five to eight hours a week. The only people that made greater use of their computers were data-processing and information-systems staff.

"Regardless of how industry is presenting the product, executives are not going for it," said Gene Buffham, market researcher at International Resource Development Inc., a market research firm in Norwalk, Connecticut. The computer industry, to entice executives, have over the years introduced products to replace the keyboard, including the 'mouse" pointer, the touch-sensitive screen and voice recognition, which computer analysts believe will take another 20 years to levelop. Today, computers only understand a limited amount of vocabulary and will only respond to a trained voice. "Executives spend the majority of their

time talking to people, in meetings or on the telephone. They are not the ones doing the data inputting, that is reserved for lower level people," added Mrs. Buffham of Internation-Resource Development.

Some British experts believe that many general managers are simply afraid of new technology. These managers may not like to operate personal computers themselves because they do not want to show colleagues that they do not understand them.

"These managers exhibit all the weaknesses and problems people do when they become fearful of their position," said Bert Darnell, the retired chief engineer of British Steel and an ardent advocate of the need to allay people's fears about new technology. "They become defensive and antipathetic to new ideas.

UT WHAT about the following generations of top executives, some of whom will have started playing with computers in the romper room? As long as typing is associated with lower status, the personal compoter will only make it from the playpen to the executive suite if it solves specific problems faced by top

"Tomorrow's top exec will be more (amiliar with computers; whether that will carry over into the executive suite remains to be seen." Mrs. Buffham said.

controlling the export of PCs merely reflects how successful the West has been in putting In the Business Computing & Communica-tions study, executives found personal computers to be essential for word processing (47 percent), accessing internal corporate databases (45 percept) and financial budgeting and planning (43 percent). For other management jobs, they did not find personal computputer technology is a gift to their military effort. "I think we should draw the line at a ers that useful.

The higher executives go, the less they are interested in using the personal computer themselves," said Michael Maccoby, a psychoanalyst and anthropologist, who is director of public policy and human development at the Kennedy School of Government at Harvard University. "The only reason people use technology is when it is more convenient."

SHERRY BUCHANAN writes the International Manager column for the International Herald Tribune.

venture production [acilities in the Soviet. Union, an eventuality in which Moscow already has expressed interest. "It's more than a question of letting the Soviets have a few 16-bit PCs," he said. "There's a big difference be-tween huying a few computers here and there ARIS - Bowing to what seems like the inevitable, Western nations are in the process of relaxing their ban and being able to plan to meet major require-ments." By allowing the Soviets access to a on personal computer exports to the With the machines freely on sale at thousands of stores in the West, and available in

technology in which they have a commanding lead, he said. Western countries would be fulfilling Lenin's dictum that capitalists will produce the rope needed to hang themselves.

Soviets Set to Access the West

money to huy computers from the West m large numbers, or any clear idea of what they would do with them if they did," Mr. Goodman said. Mr. Miller disagreed. "I think the Russian economy is changing, and I think their whole outlook is changing," he said. "They'll have to accept computers as part of their everyday life."

puters, however, does not appear to be on the

buy imported products. Therefore, any com-

Decontrolling the export of PCs merely reflects how successful the West has been in putting these machines into use as a common commodity.'

Mr. Perle said that since the military had first call on scarce foreign exchange, it would be the military that would have first claim on any imported computers for a variety of purposes, including fire enotrol, logistics, weapons design and manufacturing. Meanwhile, he said, any computers imported for civilian use would be kept under tight control. The return for manufacturers would be relatively modest, while Western governments would be forced to spend more on their armed forces to counter the improved Soviet military effort.

Malcolm Miller, marketing director of the British computer company Amstrad Plc., which specializes in low-cost word processors and IBM-compatible computers, disagreed with Mr. Perle's assessment. "I don't think computer technology is beyond the military in any way," be said. "They seem to be able to produce advanced weapons without problem." With commercial competitiveness a key factor, American policy on technology exports appears to have eased since Frank C. Cartucci beginning of this year. U.S. officials said the relaxing of restrictions by CoCont, the Coordinating Committee for Multinational Export Controls, a 15-nation body based in Paris, will allow unfettered export of many personal computers widely used in homes and offices in the West, depending on their processing capacity. Computers having a "processing data rate" of less than 6.5, a measure of speed and capacity, will not require export licenses, according to the officials. This includes most 8-hit and some 16-bit machines, hut excludes current-generation computers such as IBM's new PS-2 machine and Apple Computer Inc.'s Macintosh. Western manufacturers are eyeing what in theory is a potentially huge market. "Even a small part of it would be important," said Mr. Miller of Amstrad, which is hoping the lifting of CoCom restrictions will clear the way for a sales drive to the East. The company has sent a representative to Moscow to assess market potential and reports "a tremendous amount of interest," according to Mr. Miller. Pravda, the Communist Party newspaper, said recently the Soviet Union needs 28 million microcomThe widespread private use of personal com-

Soviets' agenda. Even if they were allowed to do so, people do not have foreign currency to

available at Moscow's only electronics store,"

on Leninsky Prospekt. A reporter for Komsomolskaya Pravda toki in his newspaper how he visited the store and filled out an application form for one of the computers. "I've read there are several different versions," he told an assistant. "You should read less," the assistant replied ?

"Why?" "Because we don't have any computers, and

we won't have any.' "But don't you have them on sale from time

to time?" 'Not even one.'

The public use of computers barely exists," Mr. Goodman said. "There are certainly not enough machines around for a computer revolution.

Apart from the BK-0010, the Soviets also produce a machine called the Agat, closely based on the Apple II, which is used in schools and a range of larger computers based on small to medium-sized IBM mainframes of the midto-late 1970s.

The easy exchange of information and data made possible by computers in the West does not exist in the Soviet Union.

The only known civilian networking system the one operated by the Academy of Sciences' for the exchange of scientific data between puters bought from the West are most likely to Moscow and the Academic City, Akademgoro-dok, outside Novosibirsk. Research centers are go straight to official institutions, factories and schools, where they are needed to support an announced campaign for mass computer liter-acy by the end of the century. Or, as Mr. Perle highly compartmentalized, according to Western experts. If a researcher or hureaucrat needs to consult a colleague in another institute, he is not supposed to make direct contact. Instead, the request goes through his own director to the director of the other institute and back via the same route

> VEN COMPUTER programmers according to the experts, are given only the information needed to do their part of a job. Often, they do not know the final purpose of the program on which they are working. By restricting the flow, of information, and confining compute largely to official institutions, the Soviet Union misses out on the free-wheeling intellectual ferment that produces the West's software geniuses. There is no Soviet equivalent of the microchip millionaires of Silicon Valley. It is

A Errol G. Rampersad ASTERAS - The Ases Pendein ASIENTE CITY Stockholm's the pulls out of stockarding s onnal railroad station on work-ings has added a new dimension ings by bringing the office to

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many but it made serve 8 F & lasson, who recalled her dread of 10.00 que drive from Stockheim to ber of-CON in Vasieras through the ice and snow 015 athe long and dark winters, said the samobile office came to her after the ind to commuting. "Many of us who and to live in the capital were not ide

Nixdorf

fears, they will go to the military and the KGB. But Mr. Miller said that even if sales are initially to ministries and institutes, "eventually, the technology will pervade downwards." The machines that millions of Westerners routinely use to balance their checking accounts, write reports, play space invaders or store their recipes are for the present beyond

the dreams of most people in the Soviet Union. where citizens only recently got the right to carry a checkbook, where even such massproduced official documents as utility and rent hills are written by hand, where store clerks still put their confidence in the humble abacus, and where unauthorized use of a photocopying machine can lead to a jail sentence.

For all the rhetoric about glasnost, the Soviet remains a closed

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The simplicity of intelligence. MINOUTA

paters to catch up with the West. Whether that market materializes is open to douht. "I don't think the Soviets have the

Western-style revolution in information technology seems far-fetched. The Marxist-Leninist system is hased on the tight and centralized control of all sources of information. The unregulated spread of computers linked to storage devices and electronic bulletin boards would be a threat to the party's monopoly on information. And a computer linked to a print-er could be used as a clandestine printing press, making light work of the laborious typing out of underground samizdat texts.

In fact, the one computer theoretically on sale to the public, the BK-0010, lacks both storage and printing capabilities, according to Mr. Goodman, who has inspected one. He described it as being perhaps a little more sophisticated than a vintage Commodore 64, with virtually no available software and no compatability with Western computers. With determination, a good programmer could use the built-in RAM for data storage, he said, but this would be wiped out when the machine is switched off.

The BK-0010 is available only to a tiny minority. Exactly who gets the right to huy one is a mystery. Newspapers admit that last year, only 2,000 of the machines were put on sale, and diplomats report they are currently un-

perhaps no coincidence that Hungary, the country that by Western standards is the most liberal in the Soviet hloc, also produces its best programmers.

Despite such handicaps, Mr. Goodman said, the system succeeds in producing some fine computer experts. "It is a big country in which the educational system is oriented toward science and technology," be said. "There is a lot of raw talcot around. The Soviet Union has some good hackers, but they are restricted by the hardware they have to use. They have just never been able to work at their full potential."

Mr. Goodman said the Soviet Union is far ahead of China in its application of computers, . hut is acutely aware of its growing technology gap with the West. It is a dilemma to which re is as yet no answer. In seeking to reap the benefits of computers in modernizing their economy while minimizing the risk to the system of political control, the Soviets are in the position of wanting the golden eggs without the goose. "They cannot afford to have a com-puter revolution," Mr. Perle said. "On the other hand, they cannot afford not to."

BARRY JAMES is a staff writer for the International Herald Tribune.

Turning Machines Into Experts

By Richard Sharpe and Margaret Coffey

ONDON - In every organization there is an expert, someone who, with formal or informal recognition, knows more about the husiness pro-cedures, operating techniques and decisions than anyone else, someone to whom eventually everybody turns. A computerized expert system plays the same role as this human expert. Until recently, computerized expert systems depended on such complex instructions and needed so much computing power to be effec-tive that they were confined to the most urgent and most profitable applications, mostly military and geophysical.

ment has started that, within a Now a mo few years, could make expert systems running on personal computers as universal in use and as easy to manipulate as spreadsheets are to-

day. Two technical developments in the computing field are bringing the day of universal use of expert systems closer. First, there is the development of more powerful personal computers with more computer processing power and more storage capacity. Second, the com-puting industry is gaining experience in how to huild expert systems and the areas in which they are most likely to flourish.

Once the cost of developing and running an expert system falls fast enough, it will be like having specialist, tailor-made experts on tap for each main area of business. Soon, expert systems that guide lawyers through case law, managers through personnel selection, physi-cians through diagnosis, accountants through tax law, maintenance engineers through repair visits and financiers trying to optimize investment decisions will be commonplace.

In each case, the rules expressed in the practice of a human expert of loog standing will have been taken by a knowledge engineer and encapsulated into an expert system on a

personal or more powerful computer. Users will then be able to buy that expert system, probably for a few hundred dollars, and consult the expert's base of knowledge, getting not only the decision of the expert hut also the assumptions behind it.

One area that is making great strides is the application of expert systems to real-time plant control in such applications as the monitoring and control of chemical plants, food, pharmacentical or other process industries. In Britain, a special club of companies has been formed a software house, Systems Designers, to take the lessons of an earlier collaborative venture a step further.

Whatever the expert system, whether it is run on a powerful minicomputer for real-time chemical plant control or a personal computer mputer for real-time for a consultative accounting application, the structure is much the same.

The knowledge and experience of the human expert must be gathered and codified hy a mowledge engineer. This knowledge base is then loaded into a computer as a set of rules, the form of which is determined by the specific

expert system-huilding package. Once this base of information has been laid, a complex computer program, the driver, will help the buman user make an assessment.

By the end of the 1980s, according to DM Data, a research company, the largest single use of expert systems will be in the maintenance of complex equipment, with 28 percent of applications; in the financial sector, with 22 percent, and in manufacturing capacity planning, with 17 percent,

By 1990, Ovum, market researchers, predict that the West German market for expert sys-tems will be £300 million (\$495 million) a year, the French market close to £280 million and the British market more than £250 million.

Ray Shaw, principal consultant at Systems Designers, in charge of its expert system pro-ject, says the consultative type of expert system and the real-time type will gradually go their different ways. They will have a common core

of rules to infer from knowledge, but the need to decide in real time will make special demands on the technology.

To achieve the high rates of growth predicted for the market, expert-system development packages will have to come in two types: those tailored to real-time applications along the lines of Systems Designers' work and, at the other cod of the scale, those made as cheap and easy to use as the spreadsheet.

A simple consultative-expert system, for a personal computer, to help with personnel se-lection has been launched for £99 by PAL Software in Britain.

But IBM's Personal System/2, the compa ny's second-generation of personal computers, gives the experi-systems development package vendor a firmer foundation, according to Peter Liewylyn Jones, chairman of Creative Logic. Creative has just launched the expert system development package, Leonardo. The entry level Leonardo costs £150 and is powerful enough to build a small-to-medium-set suitative expert system of 1,000 rules.

Logica, the British software house, has taken the advanced version of Leonardo and built it into a computer operations advice package that helps the users of large computers find out

where the bottlenecks in performance are. At both cods of the market the demand for expert systems will expand through one professional group after another. Some groups will write their own expert systems using packages like Leonardo, just as they tackled spread-sheets and personal computer databases. Others will turn to the software houses like Systems Designers and Logica and have a tailormade system developed for them.

The most conservative prediction is that the expert system market will grow fivefold over the next five years in Western Europe.

RICHARD SHARPE and MARCARET COFFEY are London-based free-lance journalists specializing in computers and technology:

industall of the big names in th industry works with Nixdorf. teasons differ, but the underty

is simply that Nixdorf Compu Thehensive and reliable sol hational automotive industry are the leading suppliers of Aincluding an integrated bus dealerships. Besides hand ^{tinancial} accounting, stock



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TechnologyWorkplace

Swedes Catch the Office Express

Employees' workday begins with the ride to corporate headquarters.

By Errol G. Rampersad

ASTERAS ---- The Asea Pendeln that pulls out of Stockholm's central railroad station on workdays has added a new dimension ing by bringing the office to to comm

Clocking in on Platform 6 at 7:40 A.M., the office staff of Asea, Scandinavia's largest maker of heavy electrical equipment, take to their deaks in what is the world's first and only milbome office. Their workday begins with the ride to corporate headquar-ters and their jobs in Västerås, a former Viking trading town 130 kilometers (80

The luxuriously appointed carriage, out-fitted at a cost of 4 million Swedish kronor (\$6.7 million), can seat 40 passengers. It is equipped with 26 ergonomically designed work stations, a special conference room and a longe, which is decorated with pot-

"The public use of computers buches, r Generation said "There are condwhigh machines alound for a complete

Apart from the BK-0010, the Sorias reduce a machine called the Aga 6 and on the Apple 19, which is used into id a range of larger computers based on medium-stard IBM munframes da late 1970s. The casy exchange of informational

ade possible by computers in the bag i cause in the Sound Union

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Swedish commuters get all the amenities of the office as the scenery goes by.

happy about the three hours we wasted done documentaries on the Asea Pendeln every day traveling back and forth to Väs-teris," she recalled. "I felt a lot of valuable

Olle Welin, engineering project leader for the commuter office, said that the Volkstime and manpower was being wasted on commuting. I realized this time could better wagen division in Amsterdam had expressed an interest in a similar project. be used to benefit both employer and em-Volvo, which has just taken over the aban-doned shipyards at Uddevalla in Sweden, was also looking into the *pendeb* idea, Mr. es." She presented the concept of a ployees." She presented the concept of a mobile office to Percy Barnevik, president and chief executive officer of Asea, who was Welin said. He noted, too, that the Italians have approached Asea with a view to setting The train also ferries visitors traveling up something similar to ferry journalists between cities during the 1990 World Cup from Stockholm and Västerås executive going to the capital for meetings and confer-ences. It travels back and forth six times a

football championship As a manufacturer of locomotive assemblies, it is somewhat easier and, certainly, Employees purchase a regular secondclass roundtrip ticket, costing 160 kronor a day. Asea pays one-third and the rest is tax less costly for Asea to accept the idea of an office on rails," a commuting executive said. Moreover, cooperation between private enterprise and the state-owned railways is much easier here in Sweden, where labor relations have always been harmonious." "Since Asea manufactures locomotives,

The railway people have been very en-usiastic and have cooperated in every way," Mrs. Larsson said. So too has Televerket, the nationalized

telephone company. There are 26 phones aboard and one can dial anywhere in the morld.

The mobile office is run by a staff of four, working in two shifts, operating the switchboard and making sure things run smoothly. On a recent 7:40 run from Stockholm, Eva-

Lena Nilsson and Karolina Frielingsdorf went about their duties with customary efficiency, oblivious to the towering pines and sparkling lakes that flashed by. "We have gotten so used to our 'office' that we hardly ever miss the atmosphere of the convention-al workplace," they said.

SEA HOPES that its investment in the pendeln would help to attract the capital's university gradnates to its offices in Vasteras, which, with its 120,000 inhabitants, is a onecompany — Asea — town. Stockholmers find it rather boring, since there are few amenities for nightlife.

Last year, Asea, founded in 1883, ranked among the world's 10 leading electrical and electronics enterprises, with operations conducted through 346 companies, with a work force of 71,000 employees. Approximately 70 percent of its sales are outside of Sweden. In a merger with Brown, Boveri & Co. of Baden, Switzerland, announced last month, Asea now becomes the largest in Europe,

with a joint work force of 160,000. Greeting the announcement of the merger on a recent ride, Mrs. Larsson laughed at the suggestion of a railborne office between Baden and Västeras.

ERROL C. RAMPERSAD is on the editorial staff of the International Herald Tribune.

Fully Automated Factory Goes Beyond the Dream

By Beth Karlin

ASHINGTON - For most international companies, the paperless factory remains a dream. Pencil-pushing and paper-shuffling continue to inhibit productivity gains. But a handful of forward-looking companies are investing heavily to make automation a reality. They are computerizing and integrating everything from sales to manufacturing to shipp And they are doing it on a worldwide basis. Early sults are impres

At Tandem Computers, for example, productivity increased 340 percent and work-in-process throughput decreased from 19 weeks to less than two weeks as a result of extensive automation at its Watsonville, California, facility. Tandem's high level of office and manufacturing automation extends far beyond Watsonville to encompass - and unite via a sophisticated network — three domestic assembly plants and another in Neufahrn, West Germany, according to Jack Cundari, Watsonville plant manager. Successes by Cupertino, California-based Tandem

and other innovators are encouraging more compamies to expand computer integrated manufactur Such firms as ICL of Britain, N.V. Philips of the Netherlands and Siemens of West Germany are following suit. Indeed, European spending for automa-tion is growing at a faster rate than in the United States, according to Dataquest Inc., a San Jose, California, market research firm.

Europe's speedier growth is due at least in part to the fact that it is making up for a slower start. But the declining value of the dollar, and corresponding increase in the price of foreign-made products in the United States, also is contributing to the new enthu-siasm for automation in Europe. The only real way to lower prices, without lowering profit margins, is to cut production costs.

"They've had to automate," says David Penning, director of Dataquest's manufacturing automation service. "And while they've been making real anges, we've just been fooling around with curren-Once again, we've shot ourselves in the foot." Total European spending for automation, includ-g computers, software and manufacturing systems, will more than double to \$7.1 billion this year, from \$3.3 billion in 1983, according to Dataquest. By 1991, Dataquest predicts, Enropean automation invest-ment will climb nearly 50 percent more to \$10.5 billion.

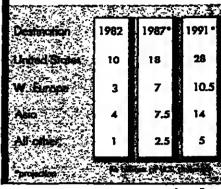
U.S. spending, meanwhile, will increase 78 percent to \$17.8 billion, from \$10 billion between 1982 and 1987. Dataquest forecasts, however, that by the end of the decade, U.S. spending for factory automation will start increasing at a faster rate. By 1991, Mr. Penning estimates, the U.S. market will expand to \$28.3 billion.

In terms of total world market for manufacturing automation equipment, Dataquest says, the United States was first in 1986, with 51.5 percent of factory revenue; Asia was second, with 20.8 percent, and Europe was a close third with 20.6 percent. In factory automation unit shipments for 1986, the United States led with 53.5 percent; Asia was second with 20.5 percent, and Europe was third, with 19.8 percent

How U.S. Systems

Score Abroad

Foreign sales of American-made automated manufacturing equipment have grown from \$9 billion in 1982 to \$17 billion this year. By 1991, the market could exceed \$29 billion.



Page 11

European demand for automation equipment has created profitable new markets for U.S. firms, partic-ularly in computer-aided design and manufacturing (CAD/CAM). CAD/CAM is the essential first step in computer integrated manufacturing. The data generated by designers and engineers as they fashion products on a CAD system's video screen provide much of the information that is necessary to computmuch of the information that is necessary to comput-erize the overall production planning effort. This includes matufacturing the tools, ordering the raw materials and scheduling the production runs. "Exports [of CAD/CAM equipment] have grown at a tremendous pace," says Deborah Harris, an

economist with the International Trade Commission. Foreign sales of U.S. products have skyrocketed from about \$243 million in 1980 to about \$1.6 billion in 1986, she said. U.S. CAD/CAM vendors dominate 70 percent of the West German market, for example, and 75 percent of the British market.

The benefits of computer integrated manufactury ing are many, says Tandem's Mr. Cundari. Assembly and test operations at the computermaker's Austin facility, for instance, are entirely tracked and controlled without paper. Wands are used to read bar code labels affixed to subassemblies and other work in process. As a result, the computer records - and any worker who wants to know can instantly learn where the work has been, where it is and where it is headed.

Via computer, Tandem officials can learn every-thing from the raw material to finished goods inventories at any of the other plants.

BETH KARLIN is a Washington-based journalist who contributes regularly to Electronic Business and other technical publications.



Leninsky Prospekt S. reporter for Kornsoniolskava hade. Bis newspaper how he stated beauty

"But don't you have them on saleing

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ted plants and contemporary prints. The coach is owned by Asea and is the

first private passenger train to run on the state-owned railroad network, Statens Jäm-

The work stations are equipped with tele-hones connected to a conventional telene exchange, which in turn is coupled to a mobile telephone system. It provides ac-cess to any country in the world, as well as Scandinavia's ubiquitous cellular phones in cars and boats. Riders can use electric typeriters as well as personal computers, with which they can gain access to data bases at corporate headquarters in Västerås. Com-

receptive to the idea.

commuter trains and freight cars and is also

involved in a new Swedish high-speed train

project, the mobile office gave the company

a rare opportunity for promoting its prod-

ucts," said Peter Olofsson, a member of the

corporate communications staff. Company

officials said they think it is only a matter of

time before the railborne office makes its

Japanese companies are looking into the

. idea, and Tokyo television companies have

debut in other industrialized countries.

workday.

maters, armed with their diskettes, are in touch with a specially linked computer throughout the ride. The office-on-wheels was the brainchild of 34-year-old Ann Larsson, a member of

Asea's business development and corporate ming division, herself a Stockhohm-Västeris commuter. "It was a joke at first," she explained. "Then we thought, why not. It seemed crazy but it made sense." Mrs. Larsson, who recalled her dread of having to drive from Stockholm to her of-

fices in Västerås through the ice and snow doring the long and dark winters, said the idea of a mobile office came to her after she . switched to commuting. "Many of us who preferred to live in the capital were not

ARRY JAMES . CONSISTENT An Hab the soul I start

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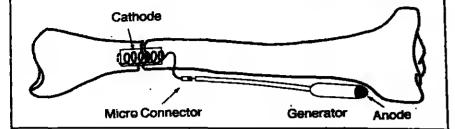


Diagram shows a cathode that is cut into the bone, spanning the broken area. A wire connects it to a battery-powered generator. The circuit is completed by the body itself. The process is monitored by a remote readout.

Electromedicine Gains In Respectability, Use

By Peter HL Frank

ALLAS - Although scientists continue to debate exactly wby and how it works, the process of applying electricity to aid in the repair and growth of bones — which has been used mainly with fractures - soon may be extended to an array of other problems, ranging from osteoporosis and osteoarthritis to spinal fusions and skin ulcers.

Everyone lamiliar with the process - in which electrical current is applied to bone fractures that have not healed in the normal period of time, so-called nonunion fractures agrees that it works. But many in the medical profession remain skeptical, and such doubts must be overcome before the procedure becomes a commercial success, analysts say.

"Electromedicine still has somewhat the voodoo edge to it." said Randy L. Hines, an analyst with John G. Kinnard Co. in Minneapolis. "Any company in the electromedical field has gone through a real battle of educating. I don't think you're that far off base comparing the perception to the Frankenstein idea with strapping electrodes on."

Currently, fewer than 20,000 patients a year are using an electric stimulator as part of their treatment. The result is a relatively small \$50 million annual market. But that could rise dramatically.

Each year in the United States, for example, there are 300,000 cases of fractured tibias, the larger of the two bones between the knee and the ankle. Of these fractures, 100,000 are believed to be of the conunion variety and prime candidates for treatment with electrical cur-

And some scientists and analysts predict that the market's potential could increase a hundredfold if the electric-current technique can be successfully applied to other bone diseases.

Such prospects have caused competition to heat up in the oascent industry. It was only in 1979 that the Food and Drug Administration first approved the technique for commercial application and since then companies have been rushing for FDA approvals.

Among the major players today are Electro-Biology Inc. of Parsippany, New Jersey, Amer-ican Medical Electronics Inc. of Dallas, Pfizer Inc. and Zimmer Inc. in Warsaw, Indiana, a unit of Bristol-Myers Co. Among the attractions of the process, which no one fully understands, is that it seeks to imitate natural electrical forces within the body. In 1957, two researchers, E. Fukada and I. Yusada of Japan, described the electrical current that was known to be generated by bones when placed under stress. Since then, research has centered on duplicating the various electrical signals produced by the body to control various functions, according to C. Andrew L. Bassett, emeritus professor of orthopedic surgery at Columbia University. "What we're packaging is a mimicry of what the body puts out naturally," Mr. Bassett said. He stressed, bowever, that the electrical signal used by the devices bears no resemblance to the electromagnetic fields produced by electric power lines, which some scientists suspect increases the risk of cancer to those living within the field's range.

An American Medical Electronics transducer slips over leg, sending electric current through the bone.

enhance the calcium formation that accelerates bone recovery, scientists say.

So far, three distinct ways have been devised to deliver the electric current to the needed area. No matter which technique is used, the process takes about six months for the average patient.

The direct current method commonly uses an electrode that is implanted at the bone and delivers a steady supply of current to the fracture. A small battery is implanted into the soft tissue nearby. The device runs 24 hours a day and costs \$1,895, not including the surgical procedures.

In a second method, the capacitive coupling system, metallic plates are placed directly on the skin on either side of the ponunion fracture. A small current, which then runs through the bone, is supplied by an external battery or other power source. The device runs 24 hours a day and costs \$2,800.

The third procedure, the inductive coupling method, uses electromagnetic fields rather ihan a direct obication of electric current to

How a Typo Set Off a Scientific Scramble

Continued from page 7

spread through the scientific world, the jour nal's editors denied vehemently that they had divulged the secret. They privately expressed anger at Mr. Chu, suspecting an intentional deception on his part to mislead competing researchers. Mr. Chu, in turn, earnestly denies any deception. He explained the mistake as a typist's error, and anyway, he says, he correct-ed it two weeks before publication. The secrecy, the petulance, the jockeying for

science's top prize, the raw displays of ego and ambition — all these have risen nakedly to the surface in recent months. For researchers, the Nobel prize is certain, but the precise names it will honor are not. For industry, a patent battle likely to burn through the next decade will hinge on the events of this year.

Still, when these conflicts recede from memory, a story will remain of scientific discovery in its purest form. The heroes will be a few obsessive physicists driven to understand the strange, shimmering electronic qualities of crystalline matter and who chose a path that their colleagues either scorned or overlooked. They blended intuition with experiment, mixing weeks and months of patient trial-anderror with an occasionally uncanny insight into structures too small to see.

Only a year ago, superconductivity belonged to the obsessive few. It was a piece of scientific esoterica, tantalizing but obscure, for good reason. It seemed to be strictly a creature of the extreme cold near absolute zero (approximately 459.6 degrees below zero Fahrenheit).

For most practical purposes, the necessity for extreme cold made superconductivity forbiddingly expensive. The search for materials that become superconductors at warmer temperatures progressed slowly, sometimes proceeding by just tenths of a degree at a time. By 1973, the temperature of superconductivity had been raised to 23 Kelvins (minus 437 degrees Fahrenheit). But there progress stopped. By the 1980s, the field was dying.

Mr. Chn is in his tiny office at the University of Houston. Across the hall, his colleague Pei-Herng Hor is also on the telephone, explaining for the 100th time the miracle of superconductivity - conduction with zero resistance, whether over a few feet of wire coiled in a magnet or over transmission lines spanning a continent. "Not approaching zero, it is zero. Yes. Yes. It can be 10,000 miles long and it's

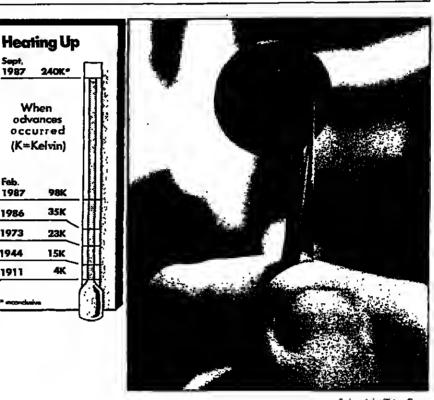
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still zero." In the quest for this ultimate zero of electricity, Mr. Chu's team - barely a dozen men and women, nearly all immigrants, working with second-rank equipment - was among the few serious players remaining.

In studying superconductivity, Mr. Chu took an unusual tack. Instead of staying with metals, which are natural conductors, be worked with oxides, compounds of metallic elements and oxygen, which generally do not conduct any electric current at all. A few oxide superconductors were known to exist, but their useful temperatures were unpromisingly low. Considering that they were ordes, though, Mr. Chu thought it was odd and interesting that tances would be superconductors. He told his wife last summer that he was iving himself three years: If he did not find a gh-temperature superconductor by 1989, he would give up. Soon after, one day in November, be arrived at work and found on his desk a paper from Zeitschrift für Physik, a German journal. He read the article that referred to superconductivity at high temperatures and telt a physical sbock. "God," he said, "we had worked so hard on the oxides, and there they got it.'



J. Georg Bednorz and Karl Alex Muller in their IBM research laboratory in Zurich.



A disc of yttrium, the superconductive material.

norz and Mr. Muller did, and. on Jan, 27, 1986, duce dramatically different substances depending on how they are oaked or bow they are As Mr. Bednorz cooled his sample, measurcooled. Mr. Muller and Mr. Bednorz had stumng a current passing through tiny wires atbled upon a particular crystal by an accident of tached to it, he discovered a sharp drop in preparation

Mr. Chu found that he could duplicate the resistance. By April, the two men had raised accident, but his first samples of the material superconductors; four days later, after reacting with water vapor and carbon dioxide in the air. these porous ceramics would again be worth-

ic openness still outweighed the less familiar urge for competitive secrecy. Bell's scientists hastily assembled a team. Like Mr. Chn, they quickly confirmed the Zurich results.

But for all these groups and the many others who now entered the fray, the question was whether the hint contained in the Zurich discovery could be turned into still other materials that would act as superconductors at even higher temperatures. The difference between 23 Kelvins and 35 was historically enormous. but for applications it was not enough.

The next goal was 77 Kelvins, the temperature that would allow liquid nitrogén to be used as a coolant. Liquid nitrogen is cheap the supply is as abundant as air.

Each scientist who considered the possibility of a liquid-nitrogen temperature superconduc tor brought to the problem a different set of bunches and a different style of experimentation. As a first step, many substituted new elements for the atoms of barium in the Swiss compound. The Bell researchers immediately tried the closely related element strontium, and strontium worked.

Mr. Chu did a further test. He placed samples of the IBM material under high pressu using a piece of equipment he calls his "bomb" -a custom-made, lipstick-sized container ca-pable of creating within it pressure 200,000 times that of the Earth's atmosphere.

Mr. Chu had "squeezed" many materials over the years, knowing that pressure reduces the distances between atoms. Having squeezed earlier superconducting oxides, he knew what to expect: not much. In this case, however, he found that pressure dramatically raised the temperature of superconductivity, to 40 Kel-vins, then 52, then 57. There were even fleeting. transitory hints of declining resistance at temperatures above 70.

Mr. Chu next tried substituting smaller atoms: strontium and then calcium. With calcium, though, the temperature at which super-conductivity occurred fell back down, to a discouraging 20 Kelvins. "So we said we should do something else now - no hope with that kind of structure.

The materials he was working with were rough, filled with impurities and visible discolorations. Mr. Chu tried growing pure single crystals of the materials, but he quickly realized that he lacked the equipment and exper-tise to compete with the big laboratories.

In January, looking over his data, he found one more crucial clue. The impure materials produced hints of superconductivity at high temperatures, but, as the experimenters cooled the samples, the materials were slow to reach zero resistance. When the researchers succeeded in making purer versions of these materials, however, even though superconductivity came more suddenly, the hints at the higher temperatures did oot appear.

One especially impure sample had come out of the furnace red on the outside instead of shiny black, and green, blue and white on the inside. It was clearly a mixture of different substances and different crystalline aurangements of substances that were otherwise chemically the same. Mr. Chu insisted that this bastard ceramic be tested; and it showed:a faint signal that it contained some as-yet-undiscovered superconducting substance.

By now he had expanded his team to include TORCALL. 'r onben has a "suracie" a group at the University of Alabama, headed his former student Maw-Kuen Wu. This a since its incruce coneffises min temperature, mak-

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In speeding bone recovery, it takes only a small amount of electrical stimulation, equal to that of only about two watch batteries, to

the body. By placing, in effect, strong electromagnets on either side of the area, a powerful electromagnetic field creates an electrical current that penetrates the body. The unit put out by American Medical runs three hours a day, and the one produced by Electro-Biology runs for 10 hours. Each costs \$3,150.

All three methods boast a success rate approaching 80 percent, according to their manu-facturers. The system used depends on the patient's or the doctor's preference and the site and severity of the break.

The success of the process in speeding the heating of broken bones has stimulated research into other areas. One widely explored field is the use of electrical current to aid in the bealing of the estimated 250,000 spinal fusion operations performed each year in the United States.

BGS Medical Corp. in Denver and Intermedics Inc. of Angelton, Texas, have received approvals from the FDA for the commercial use of its product.

Matra spends more time on research

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A long stalemate with nature had ended, not in Mr. Chu's laboratory, but at the Zurich research center of the International Business Machines Corp., where two scientists had made the breakthrough reported in Zeitschrift. They, too, were specialists in oxides: Karl Alex Muller, a gentlemanly Swiss physicist who had seemed to be nearing the end of a productive career, and J. Georg Bednorz, an experimentalist and an expert on materials.

Mr. Bednorz came across a paper by French chemists describing an oxide of copper mixed with two other elements, barium and lanthanum. The French had never cooled the substance to look for superconductivity. Mr. Bedthe record for a superconductor from 23 Kel-vins to 35 - still 397 degrees below zero Fahrenheit. That was not warm enough for new practical applications, but it was warm enough to rekindle interest in superconductivity's future.

1987

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1973

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1911

they struck gold.

Mr. Muller and Mr. Bednorz made oo announcement. They did not even tell scientists at other IBM laboratories. They submitted a modest paper, not to Physical Review Letters but to the German journal, which they knew would remain unread by most physicists. One reason for their caution was that the history of superconductivity had been littered with false alarms. Another was that they wanted to continue their work in peace.

Mr. Chu's group had a routine. The re-searchers divided up the journals and were responsible for catching any news of even the remotest significance. Zeitschrift für Physik is not an obscure journal, but at places like Bell Laboratories it went unnoticed. Mr. Chu, calling his staff together that morning last November, had a head start.

Even with the Zurich recipe at hand, Mr. Chu was operating almost blind. No one knew exactly what the desirable crystal structure was because four elements mixed together can pro-

In the middle of this work, at a scientific meeting in Boston last Dec. 4, Mr. Chu gave a long-scheduled talk on an earlier oxide superconductor and, at the end, described his latest results with the new materials. Koichi Kitazawa, a physicist at the University of Tokyo, was in the audience. His group, too, had read the 1BM paper and begun a race to pursue its promise. After telephoning Tokyo for the latest data in his lab there, be told the Boston meeting about his results so far.

Mr. Chn took him aside and asked, "Is your sample stable?"

Mr. Kitazawa looked at him. "It depends," he said.

"Four days?" Mr. Chu said. "Yes."

The word was out. Mr. Chu's group and the Tokyo group quickly learned bow to stabilize the IBM material. Scientists at Bell Laboratories invited Mr. Kitazawa to present his latest data there, and he did so - traditional scientif-

Japan Pushes Research Efforts

development in the coming fiscal year — more than six times the

current budget of 300 million yen.

after President Ronald Reagan

announced an "11-point Super-

conductivity Initiative" to speed

product development in the Unit-

ed States and "give ourselves a fair shake in the world marketplace."

The Soviet Union has also de-

veloped a national plan to support

Although scientists say super-

conductive materials are 5-10 years from large-scale commercial

application, the expected rewards

may be as dramatic as the inven-

tion of transistors and integrated

circuits. Some experts already esti-

mate their commercial value could

search into marketable products

"For American science there

has never been a better time." Ben

tram Batlogg, a physicist at Bell Laboratories, told The Washing-

ton Post earlier this year. "But I suspect the first products will be from Japan. Whenever individual

efforts count, we have been lead.

ers. Yet when it comes time to nim

So far, three Japanese compa-

nies have tapped the commercial

market: They are selling supercon-

But, Japaoese officials have

MITI officials coupled the an-

ought to stress the importance of

ductivity kits to high schools.

ideas into products, we are lost."

faster and more cheaply.

superconductor research.

The decision came one month

time, the scientists tried a different substitucital for brakes. tion. They mixed in the element yttrium for IBM's lanthanum. At first the composition was inches is semi-artisanal sai in hundreds of tons. all wrong. The furnace temperature had to be Ta most chemicals are prochanged.

by

On Jan. 29, however, testing a sample at different temperatures, Mr. Wu saw the unmistakable drop in resistance at more than 90 Kelvins, only 298 below zero Fahrenheit. A few days later, after due consultation with his university's patent lawyers, Mr. Chn made his incomplete announcement.

When Mr. Chu's March paper finally appeared, several groups succeeded over a single weekend in dupbcating the yttrium material. Several succeeded in purifying the compound and identifying its precise structure.

Theorists struggled to understand a superconductor that performed at theoretically improbable temperatures. Experimenters found a dozen more compounds sharing the crystalline form of Mr. Chu's yttrium material.

Mr. Chu and others began talking openly of the next grail, perhaps already in sight, a roomtemperature superconductor.

would share findings on the level

A report released by MITI in

late August also said universities

and national laboratories, not cor-

porations, were likely to continue to lead Japanese research work.

Shoji Tanaka, a leading re-

searcher in superconductivity and

vice chairman of an advisory com-

mittee to MITI, has said thet MITI is aware that taking a na-

tionalistic view of superconductiv-

ity could lead to a stronger reac-tion from the United States than

And in a recent article in Yo-

miun Shimbun, Mr. Tanaka, who

is a professor of physical engineer-ing at the University of Tokyo,

argued that Japan and the United States "should prevent monopoly

control of superconductors and ensure this asset is used for hu-

vid F. Durenberger, Republican of Minnesota, as "a rash, nationalis-

tic move" designed to "strengthen

the U.S. position in this field vis-

"It would be very dangerous if one country or corporation con-

trolled the new materials," he wrote. "Japan and the United

States should take the lead in inter-

national cooperation to develop

LINDA HALES is the Internation

al Herald Tribune's editor of Tech

nologyQuarterly and Special Re-

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E criticized the Super-

conductivity Competi-tion Act introduced in

March by Senator Da-

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timed from page 7 Ronald Rong

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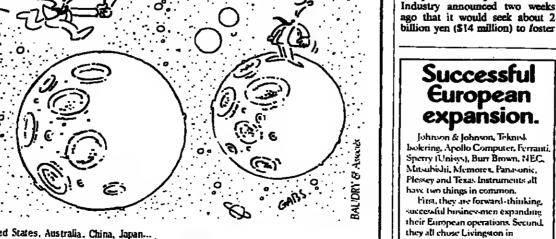
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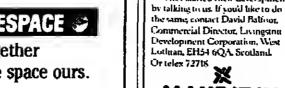
ners from Europe, the United States, Australia. China, Japan ... they are perfecting the orbiting space stations of tomorrow. Designing systems ahead of their time. Studying the behavior of men in space. Developing new technologies.

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Scotland as their development has

They started their development

For all the best business reasons.

international cooperation. nouncement of their budget request with assurances that Japan

billion yen (\$14 million) to foster Successful European

By Linda Hales

search amid concern that failure to

exploit the new technology could

doom a nation to second place in

Japan's Ministry of Trade and

tomorrow's global marketplace,

ARIS - Outside the

laboratories, govern-

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reach \$20 billion annually by the expansion. vear 2000. But U.S. business, now smart-Johnson & Johnson, Teknisk ing from Japan's success with bolering, Apollo Computer, Ferrant Sperry (Unisys), Burr Brown, NEC, semiconductors, worries that Jananese companies could turn re-

Technology Developments

Companies Try to Cash In on New High-Tech Carbon

By Vivian Lewis

Hope last components solar belles Belsie contraction a term late Mr. Co grant to all sharp prove and be Hard to statistic the second stability of the second statistic transmission of transmi Hist for all succession of a find the state of the state ARIS - Takeover bids, Attribute the providence of the Con-ALS THAT WE HERE AT THE ATTACANE Aber sample and the second states proliferating in the carbon busi-An for applications and the case ess - but that is because carbon is becoming high-tech. British Petroleum has acquired Hitco of the the new production of the second data heling belg there that we take I and mitting the United States, which makes carbon-carbon engine nozzles. BASF the suggests to de state and as de of West Germany has bought Ce-A Laggers to a second second the base lanese, a leading U.S. carbon fiber to a lagast increases in the state and the basis manufacturer. Du Pont has also bought into the business. hard the state of the state of

Toray, Soficar, has been set up by Elf Pechiney in France, BASF has a composites joint venture with a rivel Japanese firm, Toho Rayon, which has also licensed Enka of the Netherlands. A new U.S.-

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A joint venture with Japan's

In civil aviation, carbon fibers are replacing light metals.

French composites joint venture has been set up with Ferro Corp. by Alsthom. Pure carbon (graphite) fila-

ments used to be used merely to make incandescent light . bulbs. Now they are being stretched and spun out into fibers, sized, glued, textured and matted to make felt. They are woven alone or with plastics or metals to make cloth. They are coated, layered,

soaked with resins, vacuumcooked, dehydrogenated, poly-merized, baked at ever higher temperatures - up to 2000 degrees Centigrade (3632 degrees Fahrenheit) -lined with other new materials like Kevlar or fiberglass or epoxy, sandwiched around foams.

ed, molded and rolled in a host of new, labor-intensive processes to produce new carbon materials. Tailoring carbon fibers and car-

bon composites produces costly materials that are incredibly light and that have properties similar or better than those of metals in resisting heat, abrasion, pressure and chemicals.

Pure carbon has a "miracle" feature, since its friction coefficient rises with temperature, making it ideal for brakes. Production is semi-artisanal,

measured in bundreds of tons, whereas most chemicals are produced in millions of tons, and

cause they require one-tenth the density for comparable perfor-In current Airbus production, composites account for 18 percent

of the total weight of the planes the A320, A330-34 and ATR modcls. Two years ago, they accounted for only 9 percent. Industry sources estimate that composites will account for 30 to 40 percent of working on gaining qualifications from MBB of West Germany, the total for the next civil aircraft generation - fuselage, brakes,

ings, ailcrons, tail, jet housings, ducts, landing gear housings. In military aviation, composites are used more widely. For exam

ple, in the Dassault Refale model, composites account for 24 percent of the weight, compared to only 7 percent in the Mirage 2000. Every Rafale in current production uses 2,083 pounds of composites. In the United States, acrospace counts for 60 percent of the car-

bon fiber market, and in Enrope for 55 percent. Only in the Far East are sporting goods the major market

The current market for carbon fibers is about 4,400 tons annually 2,300 in the United States 1,250 in Japan, 750 in Europe. By 1990, the market is expected to reach 6,840 tons; by 1995, up to 11,200

Growth is expected to be fastest in Europe and in countries not included in the geographical breakdown, like China, Israel, Brazil and South Africa - from a lower base. By 1995, America's will be up 150 percent and Europe's will nearly quadruple.

Carbon fibers were invented in Europe but the inventor, Britsin has lost rank in developing it. The velopment of carbon fibers was started in the early 1960s by the RAE research center in Famborough, England, and was hough into commercial use by the Hyro Grafil joint venture of the British chemical firm Courtauld and Dexter Hysol, a U.S.-besed company

in Pittsburg, California. Hysol-Grafil is still the leading European producer, with a rated capacity of 350 tons a year at Coventry and a further 300 tons produced at Sacramento, California. In addition it has sold licenses to producers from Shanghai and Finland to South America. It slao dominates the production of the resin used to make the high-tech version of carbon fiber, called Pan (for poly-acrylo-nitrile). There also is a lower grade felt-like version, called pitch, which is less chesper and more widely pure,

But in the world carbon fiber league, the top producers are Japanese: Toray, at 1,500 tons, with a further 360 tons produced under license by Amoco in the United States and 300 tons by a joint venture in France; Toho Rayon at 1,380 tons, with a further 350 tons being brought into production by Enka in the Netherlands, or American, starting with the Hercules

By scrupulously following Japanese production methods, Soficar three years later is producing material up to Japanese levels. Last year Boeing qualified output from the Soficar plant for use on its planes, and in June, qualification was given by Aerospatiale and Dassanit in France, Soficar is still

which builds composite parts for making carbon-carbon aviation the Airbus.

The state got involved in the technology purchases to increase the French role in making composites for the military. But now that access to the material is greater, the French are working on new uses for carbon-carbon compos ites. For example, Carbone Induslife. trie, a joint venture of Alsthom and Messier-Hispano-Bugatti,

and racing-car brake systems, is about to sign a contract to provide braking systems for a standard luxury car with an as-yet unnamed is-Lyons run. French producer. Officials of the firm calculate

that saving a pound in producing a car is worth \$125 to \$250 over its Alsthom is also working on a braking system for the newer, fast-

VIVIAN LEWIS is a financial

er version of the TGV train, which will go at up to 350 kilometers (217 miles) an hour, compared to 250 to 270 kilometers for the current Par-

journalist who reported on European business from Paris for many years. She is now based in Washington.



Page 13

Fiber carbons can be used for airplanes - or bicyold.

n the beginning, fabled designer Coco Chanel orchestrated the development of each fragrance that bore her name and personally inspected every stitch of her innovative fashions shown in her Paris rue Cambon salon. The House of CHANEL is now a world-renowned institution, but its commitment to quality, service and the small but vital detail remains unequalled.

CHANEL still depends on personal craftsmanship to produce many of its famous products. But now, those processes that can be entrusted to modern methods are entrusted to Unisys.

'It's a perfect marriage of high tech and high fashion," says Prakash Trivedi.

His Unisys team worked with CHANEL to develop an on-line inventory and manufacturing system that enables The House of CHANEL to monitor production standards and to keep track of goods that are shipped to stores and CHANEL Boutiques across the country.

"Efficiency is the key word." Manufacturing specifications for the company's famous perfumes, including CHANEL Nº 5, are stored in Unisys microcomputers in Piscataway, N.J. The microcomputers also are used to evaluate perfume samples as they come off the assembly line. A mainframe system then monitors the manufacturing and distribution of products. This manufacturing data is

immediately available to company executives, along with information from micro-computers in CHANEL Boutiques across the country providing an up-to-theminute inventory database. It used to take three to four days for this information to reach executive desks.

"By having the data to make better, more-informed decisions, profits have increased while the high level of product excellence and customer service has been maintained," says Trivedi.

CHANEL has long been familiar with the sweet smell of success. 'And now with Unisys, CHANEL has found that computers are very much in style."

Unisys and manufacturing. The power of ".

"High tech comes to high fashion".

prices are high, ranging from \$1.50 to \$15 per pound for composites used in the sports industry, and \$20 to \$220 per pound for acrospace composites and carbon fiber. This compares with about \$4.50 per pound for special steels. Given their high price, carbon fiber and carbon-carbon composite materials can replace metals where losing weight is worth pay-ing for: mostly airplanes and missiles, but also sports equipment, such as golf club shafts, arrows, bicycles and tennis racquets.

Bar 2 Bar Street Street For airplance, saving one pound in construction is worth \$250 to \$500 during operating life. As a result, the use of carbon fibers in planes has muchroomed. In civil aviation, carbon fibers are increasingly replacing light metals like tungsten, despite their cost, be-

plant in Bacchus, Utah, at 1,05 tons a year, and followed by the Celanese-BASF plant at Rockhill, South Carolina, at 450 tons a year. In an attempt to catch up in carbon fibers, the French government in 1981 supported the establishment of two joint ventures, one with Hercales by Pechiney, and the other with Toray by Elf. But then it became clear that the market was not doubling every year and that two factories competing with each other would be catastrophic. Since Elf, an oil

company, is government con-trolled, and Péchincy is nationalized, the government could stitch together a complicated three-way joint venture, and Hercules was persuaded to pull out in 1984. Soficar still must buy both the car-bon fiber and the knowhow to process it from Toray.

earch Effort **Ozone Pact in Doubt** · · · · ·

Continued from page 7

reached in Geneva in April to reduce CFC production and consumption. The pact would freeze production at 1986 levels beginming in 1990, with a 50 percent decrease over the next five years. "I think there is a good chance of getting an agreement signed,' Daniel J. Dudek, senior economis of the nonprofit Environmental Defense Fund of New York City, had said earlier. Mr. Dudek and other environmental officials acknowledge that there is some opposition, both from industrial producers and users as well as from underdeveloped countries. These countries may be given more time to deal with the effects of drastically reduced CFC production. The British and German chemi-

cal industries question the need for carbs and fear that they will unfairly benefit the U.S. chemical giant E.I. du Pont de Nemours and Co. Du Pont has recently stopped up research on CFC subtitutes and says that it can provide ecologically sound alterna-tives on a commercial basis in five years. The European companies say it will take them 10 to 15 years to catch up.

Until recently, the United States had galvanized efforts to reach an accord.

But in May, the U.S. interior secretary, Donald P. Hodel, proposed an alternate "personal prolection" program against ultravio-iet radiation using sunglesses, hats and sun-screening lotions.

accord might counteract President ist based in Geneva.

Ronald Reagan's philosophy of reducing government regulation. These suggestions, however, prowoked annaement and even scorn from environmentalists.

"Hodel actually did a great service to the issue by pointing up the absurdity of a 'no action' alternative," Mr. Dudek said. "When they began to check the cost of SIL lasses and sun screens for people, they began figuring on \$50 to \$60 a person. And on that basis nationwide, you can get into some real fancy numbers."

Scientific analysis and international diplomacy appear to be ahead of sunglasses and sun screens in the battle against ozone depletion, Mr. Dudek and other environmentalists say. Despite Mr. Hodel's comments, the U.S. State Department and the Environmental Protection Agency remain committed to an accord, with the support of large industrial concerns.

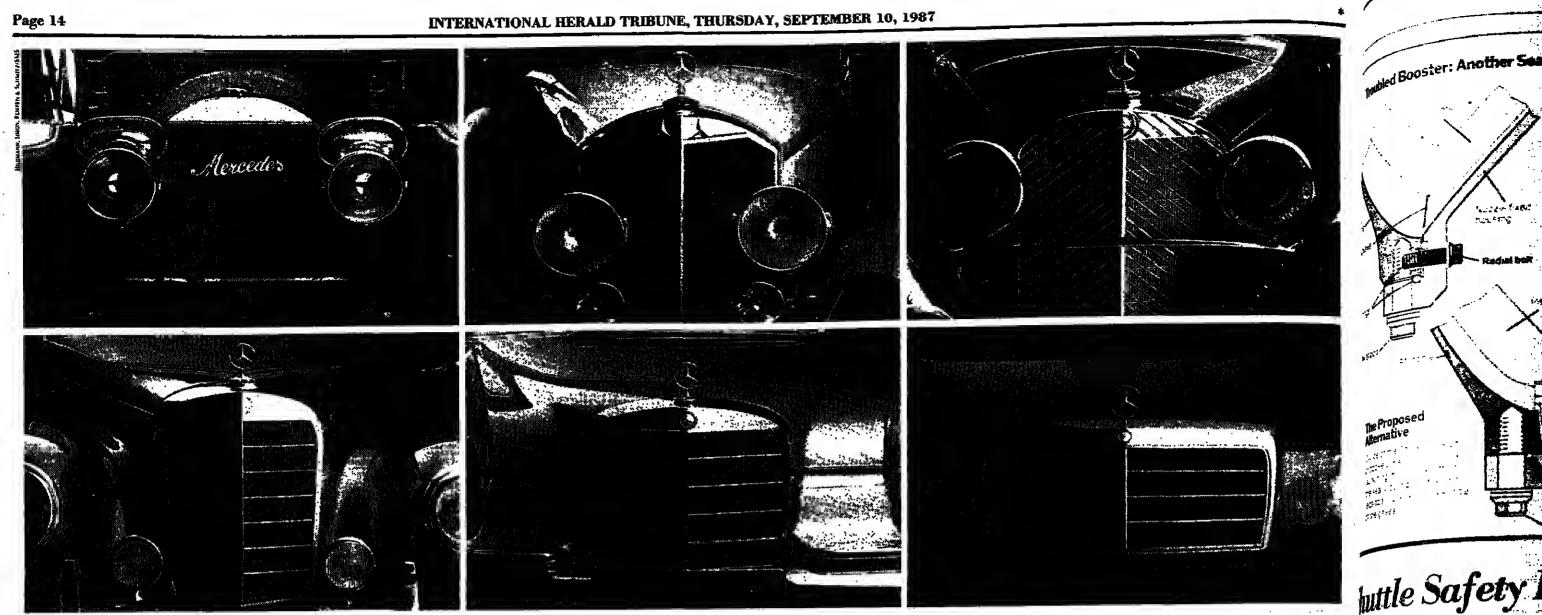
Meanwhile, the European Community, under pressure from West Germany, the Netherlands and Denmark, has recently endorsed a tighter schedule of reductions in CFC.

At the same time, a move to ward accommodating Third World concerns may also ease the path to an accord. Limited exemp-tions could ease Third World fears that drastic reductions in CFCs could harm their fledgling chemical, consumer, computer and refrigeration sectors, environmental officials say.

Mr. Hodel said he believed an THOMAS NETTER is a journal-

Prakash Trivedi, Branch Sales Manager, Unisus.





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becomes tradition.

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nology and high quality are important for the successful development of our company and for strengthening our future competitiveness. So we make sure that in the future good ideas will not become a matter of chance and innovation will remain our tradition.

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Starfish about Thickol's choices. At DURHAM ing the company has iszoelogist is m maract to Vetco Gray producing a o buton to design and test Charles Wa are aczie joint that subvolike human discoverature metal alfind the chi the primary rubber Oerm, He beli ock a che

et staning from scratch plan of time, the metal The starligh probably be the way to aber of the parel said Walker said fi ising on anonymity. the metal seal is the first

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SCIENCE

Troubled Booster: Another Seam Under Scrutiny The Disputed New Design Engineers are redesigning the joint between the rocket casing and nozzle because of senous seat erosion during past shuttle flights. Morton Thiokol. manufacturer of the solid rocket booster, has selected a new design, left, incorporating 100 radial bolts intended to hold the segments together during the stress of launching. Critics say the bolts Nozzle fixed may create new pathways for gas leakage housing

T and Sanday that successfully separated 7-month-old Siames twins joined at the head actually began in West Germany five months ago. Last spring, a team of physicians from Johns Hopkins Hospital in Baltimore visited the infants and devised a unique operative plan that they thought could separate them without causing lasting brain damage.

Almost immediately, the doctors began a procedure to slowly stretch the babies' skin sufficiently to cover an operative wound.

By Jane E. Brody New York Times Service

Then came months of prepar tion and lengthy dress rehearsals using dolls attached at the heads with Velcro. One small mistake could mean permanent damage or even death for one or both of the otherwise healthy babies. Dr. Mark Rogers, the physician who choreographed the final plan,

likened it to "a complex military maneuver" in which anesthesiologists, cardiac surgeonis, neurosur-

end, when no elective surgery is planned and the 70 professionals

needed in the cramped operating room, the 70 others in support, and the 60 mits of blood and blood components required could be dedicated to the twins. Independent of the success of scoording to Dr. Ben Carson, the

we could," Dr. Rogers said after bleeding that had complicated the the hearts and blood flow. Longer completing the 22-hour procedure. end of the difficult surgery.

Dr. Mark Rogers with the dolls used to rehearse surgery.

ference, continued to coze blood, stopped their hearts. according to Dr. Ben Carson, the Dr. Carson and Dr. Donlin

and Benjamin Binder, were in criti- mese twins joined at the head, the was a lot of tension in the operating

was done in 56 minutes and the "Like what would happen if there were a power failure during the Then came an even scarier mo-surgery. With all the machines we other in 63," Dr. Carson said. ment. Once the babies' hearts were were using, we could easily have restarted, they bled profusely from overtaxed the operating room's all the tiny blood vessels in the electric system." brain that had been severed during But throughout the planning, the central concern remained the bathe surgery. Pint after pint was bies' neurological status. "We doneeded, nearly exhausting the supplies; participants in and out of the cided in advance not to proceed operating room volunteered more. unless we thought we could sepa-At the same time, the babies' rate them without compromising the neurological function of either baby," Dr. Rogers said. Until the

surgically traumatized brains began to swell dramatically. So it was decided to end the surgery as soon as possible, rather than pursue the original plan to fit the babies immediately with cus-tom-designed metallic mesh skull coverings.

Fortunately, they turned out to According to Dr. Crzig Du-fresne, the plastic surgeon who had share only a main drainage system, called the sagittal superior sinus and a critically important vein. designed the coverings using a three-dimensional model generated Dottie Lappe, the acting head nurse of the pediatric intensive care unit, who cared for the Binder baby a Cemax computer, a second operation to create a cosmetically ptable skull will be done at a bies before their surgery as well as later date, assuming the babies conafter, described them as "happy, tinue to recover normally. Once in smiling, playful infants who laughed and cried like other baplace, the babies' skull bones will grow into and around the mesh, which will never require removal,

bies." Except for their immobility she said, they were at the right the plastic surgeon said. developmental stage for their age. Before the separation surgery could be undertaken, a section of "Everything in the surgery went as planned and as well as we could the hospital needed to be rewired. "We tried to anticipate everyhave hoped for," Dr. Carson said. thing," Dr. Rogers explained. "The rest is up to God."

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Orine

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Area

By David E. Sanger New York Three Service

Adhesive

Oringe

Axial bolt

Aft dome

The Proposed

Critics of the Thickol design

propose a metal U seal. In a

launching, hot gases hitting

legs apart, preventing escape

the seal would push the two

Alternative

of the gases.

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E VEN as engineers dissect the space shuttle booster rocket fired in Utah recently, debate cones over one element of the rocket redesign that some engineers demonstrate it works, and that tests can suggest poses as many hazards as it worried as Roger is, so that is why

The debate does not center on the joints that failed in the Challenger accident, but on another crucial seam, at the aft end of the rocket, where the nozzle is attached. In shuttle flights before the Jan. 28, 1986, accident, the awkwardly shaped "nozzle-to-case" joint was the site of some of the most serious in-flight erosion of safety scals. Revamping the nozzle joint, which cannot be seen from outside the rocket, has been one of the stickiest problems facing Morton Thiokol Inc., the manufacturer.

fated Challenger flight.

stake in their opinions: Mr. Mc-

metal-to-metal seal formed by the gerated, because bolts like that bolts has been tested and shown to have proved successful elsewhere in be effective, even without the Viton the shuttle. Nonetheless, they ac-rubber seal around the bolt heads knowledge that the bolts could for extra protection. We are confi-bend the joint out of shape, and dent it will work, and that tests can demonstrate it works. But we are as overall steel case structure.

we are testing alternatives." Members of the National Re- course," be added, "the booster search Council say they believe Mr. was tested extensively before the Boisjoky's fears about the Thiokol shuttle accident, too. And look design and its bolts may be exag- what happened."

Aft skir

"That's why we conduct tests." a member of the panel said, "Of

IN BRIEF

Possible Key Found to Malaria Deaths WASHINGTON (AP) - Scientists have discovered that a natural body protein is likely a major cause of the deadliest complication of malaria, a finding that suggests that blocking the chemical's action might save hundreds of thousands of lives each year.

A new design, incorporating an extra O-ring, 100 bolts to hold the Studies indicate a protein called tumor necrosis factor (INF) or joint together, and other changes, has been adopted by Thiokol with the endorsement of Allan J. Mc. Geneva in Switzerland, Blocking the protein's action with antibodies of the endorsement of Allan J. Mc. Donald, one of the Thiokol engi-other agents might be a new way to treat the most fatal complication of malaria, according to a report in the journal Science. Estimates are that ing the Challenger. But the new design has been criticized by Roger Boisjoly, a former Thickol engineer There are an estimated 100 million estimated new cases of malaris who also argued against the ill- worldwide each year, with one million resulting in death.

Both men have a significant Birth Defect-Alcohol Links Studied

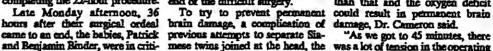
stake in their opinions: Mr. Mc-Donald serves as chief of Thiokol's redesign team and Mr. Boisjoly re-signed from the company after the disaster, filing suit assingt it for to scientists of the National Institute of Child Health and Development.

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geons, plastic surgeons, nurse, atric intensive care unit. The babies a series of routine but adva technicians and electricians were still face such risks as blood clots, medical maneuvers that put "trained to provide the proper in-intracranial bleeding, heart compli-brain temporarily on hold. The cations, uncontrollable brain swell-bies were placed on heart-lung medical maneuvers that put the brain temporarily on hold. The babies were placed on heart-lung machines and cooled to reduce brain function to near-zero. At the criti-

can be fully assessed. After the operation, which ended and drainage vein, the carman sur-at 5:15 A.M. Sunday, the extensive geons, Dr. Bruce Reitz and Dr. head wounds, approximately 16 Duke E. Cameron, drained all the blood from the babies' bodies and blood from the babies' bodies and

this operation, our ability to plan pediatric neurosurgeon who had Long, the chief of neurosurgery, something as complex as this surgically divided the shared brain had one hour to accomplish final tanght us that we can accomplish tissue. But he and his colleagues separation, reconstruct the divided much more than any of us thought had been able to stop the extensive brain cavities and veins and restart



cal but stable condition in the pedi- Johns Hopkins team had combined room. But we made it. One baby



Page 15

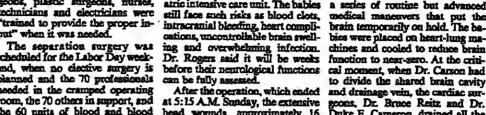
infants' brains were actually ex-

posed during the operation, the surgeous could not be certain that

parts of critical brain tissue, such as

the vision center, were separate.





disaster, filing suit against it for fraud and defamation.

The engineers' disagreement was subject of informal discussion last week among rocket specialists who gathered in the Utah desert to watch the first test-firing of the revamped rocket. While most experts concluded that the path chosen by Mr. McDonald's team at Thickol woold probably work, they said Mr. Boisjoly had pointed out real weaknesses. Even the independent National Research Council oversecing the redesign has its doubts about Thickor's choices. At its prodding, the company has issued a subcontract to Vetco Gray Inc. of Houston to design and test an alternate nozzle joint that substitutes high-temperature metal al-loy seals for the primary rubber Oring in the Thiokol design. "If we were starting from scratch

and had plenty of time, the metal scal would probably be the way to go," one member of the panel said last week, insisting on anonymity. "As it is, the metal scal is the first p

backup plan." Under the pressure of launching the two segments sometimes sepa-rated a fraction of an inch, and hot rates a traction of an inch, and hot gases began to erode the rubber O-tings. Had those rings burned en-tirely through, few doubt the shut-the would have been destroyed. To prevent the problem from re-cutting and the shut-

curring, engineers have redesigned insulation around the joint using a "J-seal" that should prevent any hot gas from getting near the O-ings. A third O-ring has been add-ed as a "wiper seal" to prevent contaminants from getting into the joint during assembly. And most importantly, 100 bolts have been added around the joint.

Mr. Boisjoly's criticisms are focused on the new radial bolts. In the redesign, the bolts are placed between the primary O-ring in the joint, intended to stop the flow of hot gas, and the secondary O-ring

that provides a backup. "They cripple the redundancy of the secondary seal in 100 places," Mr. Boisjoly said. In other words, each bolt provides a potential leak path for any hot gas that makes it

around the primary O-ring. "It's like tightening the bolts on a car wheel," he said. "You do one side, then go to an opposite bolt and tighten that," he said. But as each of the 100 bolts in the norzele. joint is connected, Mr. Boisjoly and, the joint itself could be deformed, "creating tremendous stresses in the whole part."

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"Morphy's Law swaits them," he maintained. "If they're right, then they are heroes and I'm a burn. And that's O.K. If I'm right, more people could die." Mr. McDoneld responds that the

They analyzed the drinking habits and pregnancy outcomes of 32,870 women and found that they who had two drinks or less a day had the same nisk of bith defects overall as women who did not drink. Binge drinking, not drinking during the week but drinking seven or eight drinks on a weekend, was cited as most dangerous, with effects including spontaneous abortions, still births, low birth weights and other risks. "We did find a direct relationship between the amount of drinking ---even in light amounts --- and an increased risk of urogenital malforma-tions," said Dr. James Mills, an institute epidemiologist. "My recommen-

dation to women would still be don't drink when you're pregnant. We still clearly do not know enough about this."

Starfish Used in Male Pill Research

DURHAM, New Hampshire (AP) - A University of New Hampshire

zoologist is using the common northern starfish in research aimed at producing a contraceptive pill for human makes. Charles Walker is studying sperm production by starfish because, unlike human males, it produces sperm only once a year. He is trying to find the chemical trigger that tells the cells when to divide and form sperm. He believes that a similar process occurs in humans and a pill to block a chemical trigger should have fewer side effects than hormones such as steroids.

The startish has the advantage of having two organs in each of its five legs where sperm are produced, making it a useful lab specimen. Mr. Walker said the starfish also is in a more direct evolutionary line with humans than the fruit fly and other animals used in similar research.



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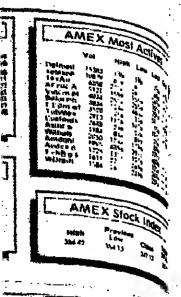
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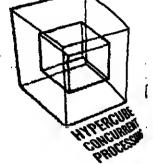
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to the U.S. figure. But what about those who do not make it to the top? Most big European manufacturing companies, such as Siemens AG, Impe-rial Chemical Industries PLC, British Petroleum Co., Royal

O SPUR these executives, these companies rely mainly on

internal labor market." "I don't think there is a big problem of demotivation," said Tony Cox, head of British employment relations for ICL "If there is, then it's the organization's problem more than the individ-nal's." Mr. Cox, who has spent his 32-year career at ICL, said that

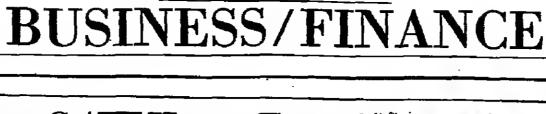
Restructured companies have an additional problem: dealing with demoralized survivors and reassuring those coming up the ladder that a lifelong career there is still possible. One way in which large companies can retain loyalty and goodwill is by

still offer an environment of stable employment to people," For those lifers who do not survive restructurings and mergers,

life on the outside is even more perilons. They often find they have two counts against them, according to executive placement companies and personnel experts; age and the fact they have

New employers often assume that a lifer, traditionally age 45 to 65, is less productive, less creative and less willing to adjust to new ideas. One notable exception is Lee Iacocca, a former Ford.

See LIFERS, Page 19



Herald Eribune.

As U.S. Fights to Revive Free Trade Code, Many Say Reality Has Killed It

> By Susan F. Rasky New York Times Service

WASHINGTON --- Forty-six years ago last month, on a warship in the North Atlantic, Franklin D. Roosevelt and Winston Churchill drew up a statement of eight common principles on which they based their hopes for mankind after World War II.

On the subject of trade, the Atlantic Charter pledged the United States and Britain to "endeavor, with due respect for their existing obligations, to further the enjoyment by all states, great or small, victor or vanquished, of access, on equal terms, to the trade and to the raw materials of the world which are needed for their economic

prosperity." Something was bound to be lost in translating those lofty senti-ments to precise commitments. But for most of the past four decades, the trading system that grew out of the war's ashes has served both

That system is governed by a 1948 accord known as the General Agreement on Taniffs and Trade, a sort of international code of commercial conduct to which 94 nations now subscribe.

Under its rubric, the member nations have negotiated seven rounds of tariff reductions resulting in an estimated 90 percent decline in tariffs over the past 40 years. In the same period, the volume of global trade has increased sevenfold.

But in the economic order of the 1980s, services such as banking and insurance account for one quarter of international trade. The fastest-growing markets are across the Pacific, not the Atlantic, and the mounting barriers to free trade are cultural and institutional, not numbers on a tariff schedule.

With the United States no longer the pre-eminent economic power,

these changes have helped to splin-ter the trading alliance into numerous sparring camps. Pressures to protect home markets have grown as some GATT members, notably Japan, pile up enormous trade sur-pluses and the United States watches its trade deficit mount. Under such circumstances, the relevance, let alone the effectiveness, of a trading code based on Anglo-American sensibilities and economic structures is under attack. The Reagan administration has

responded by galvanizing GATT members into a new round of global negotiations that began in September 1986 and address those prob-lems. The talks, which are scheduled to last four years but could well take longer, are aimed at revamping GATT's structure and practices for settling disputes.

But in the business and academic communities, and of late in the U.S. presidential campaign, the call has gone out for more extreme approaches. Some U.S. critics are seeking to subordinate GATT, or even end it entirely, in favor of bilateral trade agreements tailored to the specific economic circumstances that the United States encounamong its various trading partners.

"I think of GATT increasingly as an intellectual Potemkin Village," "When the GATT was set up, the United States, Botain and Canada had 60 percent of the world's industrial capacity," he said.

We established a trading system in our own image. The world has changed, but our outlook and our institutions have not. More and more of the problems we face in world trade cannot and will not be dealt with under GATT."

· Clyde V. Prestowitz, a former counselor to the commerce secretary who left the Reagan administration last year to write a book on the



Roosevelt and Churchill meet aboard the USS Angusta in 1941, setting the stage for a flood of pasta war stories.

ic conflict between the United States and Japan, is even more blunt. "I think the GATT is dead. What we are doing now is fighting over its carcass," he said. "It was a landable, idealistic goal, and we have tried to make it work

and clung to it in the face of all manner of provocation from our trading partners," Mr. Prestowitz said. "In pursuing this kind of dream, we have neglected our own

economic health to the point where we are threatening our geopolitical health.

made."

competitive landscape."

Four key principles underlie the GATT agreement: Trade without discrimination among all member countries; reliance on tariffs rather than import quotas or other import barriers to protect domestic industries when necessary; binding tariff concessions that cannot be rescinded without compensation to affected countries, and the resolution of trade disputes through consultation, conciliation and GATT settle-

Not all GATT critics are as harsh as Mr. Choate and Mr. Prestowitz. But even GATT supporters who say that the system is worth fighting to modify and preserve agree that it has fallen short on all four counts.

"The more complex trade has become, the more sophisticated the impediments have become, and regrettably, GATT's own processes have not kept up," said Clayton K. Yeutter, the U.S. trade representative, who is a supporter of GATT.

In recent years, the failing that has received most attention is the dispute-actilement mechanism, a protracted, combersome process that conjures up images of the 19th-century British chancery courts 'pilloried by Charles Dickens in his novel "Bleak House."

Consider, for example, the celebrated pasta war. American pasta makers complained in 1981 that European pasta makers were gaining an increasing share of the U.S. market because of subsidies from the European Community that violated GATT roles. American trade lawyers considered the situation an open-and-shut case, but it still See GATT, Page 21

Daimler to Seek A 5% Stake in France's Matra

TO COMPUTER EQUIPMENT

Page 17

TOSHIBA

products ranging from autos and consumer electronics to space craft.

"We're speaking from practical experience," Mr. Reuter said. "Daimler-Benz is working inten-

sively on a strategy for the business

areas of the future that stem from the combined knowhow of AEG,

Daimler, Dornier and MTU," the

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By Ferdinand Protzman tional Herald Tribune

FRANKFURT - Daimler-Benz AG, the West German automaker, said Wednesday that it would try to acquire a 5 percent stake in the French electronics and defense conglomerate, Matra SA. from the French government. The government, which nation-alized Matra in 1981, has said that

company's core units. Daimler acquired AEG, an electronics concern; the Donnier zeroit plans to sell its 51 percent stake in the company, but a spokesmar said Wednesday that be could not comment on the Daimler proposa until he had actually seen it. space group; and Motoren & Tur-binen Union GmbH, an aircraft engine builder, in 1985. The sudden expansion from automaker to high-

It was unclear what a 5 percent stake in Matra would cost. Meanwhile, in Tokyo, Mitsubitechnology concern was engineered by Mr. Reuter, who was the company's finance director at the time. shi Motors Corp. said it would set "Anyone who doesn't master mi-

croelectronics and certain other up a joint venture with Daimler in multiple-application technologies Japan to market Mercedes-Benz will lose out," he said. "And anyautomobiles. It also said the comof joint-production of Mitsubishi trucks in Europe and possible co-development of a light truck. one who doesn't have these technologies in their products loses enormous potential and consider-

able growth prospects." A Daimier-Mitsubishi link would fit with Mr. Reuter's assess-A Daimler spokesman confirmed that talks on possible coopment of the global automotive marcration between the two companies are underway, but stressed that,

ket. Mitsubishi, which is partly owned by Chrysler Corp., said the joint sales company would comple-ment the existing Mercedes sales "no kind of decision has been At a press conference at the Frankfurt International Anto Ex-hibition, Edzard Reuter, Daimler's network in Japan, and that some Mitsubishi dealers would sell Mermanaging board chairman, said the cedes on a dual franchise basis with planned acquisition of a stake in the Japanese automaker.

Matra, "is an example of our ef-forts to build up a European corpo-Mitsubishi said the companies are considering producing its De-lica trucks in Europe, with Daim-ler's assembly plants in Vitoria and Bacelona, Spain as possible locarate structure, seen against the background of the international

The primary feature of that tions. "landscape," according to Mr. "This business tie-up enables Missubishi to further complement Reuter, is a vast and under utilized capacity to produce antos and trucks, which is forcing automakers around the world to shift their foand broaden its product lineup in Japan," the company said. It said the aim of the joint Enropean pro-duction was "to secure a foothold cus toward growth technologies duction was "to secure a foot which can be used in a number of as a production site in Europe,

France Clears Capel Bid To Buy Paris Brokerage

PARIS - James Capel & Co., the London-based stock brokerage, has received permission from the French Treasury to buy a Paris brokerage, Dufour-Koller-Lacarrière SA, a Capel spokesman said expected to last until 1992.

The broker is one of about 19 medium-sized houses among the 45 Paris-based brokerages being assessed by domestic and foreign banks and institutions eager to gain access to their bourse monopoly,

Wednesday. Capel, a unit of Hongkong & Dufour has around 3 billion francs (\$500 million) under man-agement and is oriented to the doagement and is oriented to the do-

motivation, it is the company's fault, one manager says. the Executive Profile compiled by Korn/Ferry International

*

U.S. companies. Similar results came from

FROM AUDIO EQUIPMENT

THURSDAY, SEPTEMBER 10, 1987

retirement package.

hazardous occupation.

INTERNATIONAL MANAGER

By SHERRY BUCHANAN

Today, with mergers, takeovers and restructurings causing

even long-serving employees to lose their jobs, it can be a

tional Herald Tribund ONDON - To be a one-company employee, the "womb to tomb" type, was once the safest and, often, the most

rewarding way to live one's working life. The lifer was

guaranteed promotions, salary increases and a good

Company 'Lifers' Losing

Their Maximum Security

another recruitment company. It found that 24.2 percent of senior U.S. executives have been with one company throughout their careers, only slightly less than the 26 percent in 1979.

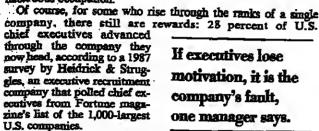
Although there are no similar figures on the number of career changes by senior British, French or West German executives, Kom/Ferry International's 1987 survey of British board mem-bers shows that 23 percent of British chief executives have been with their present company more than 30 years, which is similar

Dutch/Shell Group, and Volvo AB, where lifers still make up the majority of senior managers, recognize that once ambitious executives can lose motivation.

lateral moves within their huge enterprises. One personnel officer at Siemens called it the humry of having its "own

a majority of its senior executives have been with the company their whole lives, including their current chairman.

been with one company their entire lives.



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LONDON - Sir George Jefferson, chairman of British Telecom PLC, announced Wednesday that he would resign from the newly privatized utility at the end of the month. His announcement came at a shareholders meeting in which British Telecom reported a better-than-expected 12 percent gain in pretax. profit for its first quarter ended June 30.

The resignation also comes amid a torrent of complaints from customers about the service provided by the British telephone company. But Sir George suggested that the criticiam was unrelated to his decision to step down.

"Had it not been for the uncertainties that existed with the general election and the social ownership issue," he said, "I would have wished to have stepped down as chairman last year." The opposition Labor Party had threatened to renationalize British Telecom if it came to power in the national election in June. The

raling Conservatives won the ballot. A British Telecom spokesman described the chairman's resignation as "a long overdue re-tirement." Sir George, 66, is to be replaced by Ian Vallance, Telecom's chief executive.

British Telecom Chairman Resigns, Profit Rises rose to £561 million (\$913.5 million) for the quarter ended Jane-30, an 11.8 percent gain from £502 million in the comparable period in

1986. Revenue rose 7 percent, to £2.40 billion from £2.25 billion. Sir George admitted that the gains were achieved despite "an unsatisfactory level of service" in the first six months of 1987 "and a substantial baurage of criticism of our perfor-

mance." The company attributed the results to an 8.6. percent gain in the number of lines rented and an 8.3 percent rise in revenue from calls.

Protectionism is fiercer than ever. The

fastest-growing markets are in Asia, not

the West, and trade barriers are often

cultural. Under such circomstances, a

sensibilities may seem an anachronism.

ment procedures.

code based on Anglo-American

Consumer groups have claimed that British Telecom is increasing its profits at the expense of customer services. They have complained of chronically crossed lines, poor maintenance, alleged overcharges and difficulty in seeking financial priorse with the utility. financial redress with the utility.

John Tysoe, a telecommunication analyst with the London brokersge Kleinwort Grieve-son Securities Ltd., said that the challenge facing British Telecom was "to move from being a bureaucracy to a technology-driven business."

Referring to the chairman's resignation, Mr. Tysoe said, "Sir George was one year over

"What the new chairman's got to do over the British Telecom said that its pretax profit next 10 years," he said, "is get nid of 100,000

people on Telecom's payroll, junk huge amounts of obsolete equipment, install equally huge amounts of complicated new technology and retrain its remaining staff." John Butcher, a British trade official, was

quoted Wednesday in the British press as saying that "the pressure is on BT to do as well as in possibly can in this period up to 1990." The bank, Crédit National, had re-

company faces a licensing review that year. With a 49.7 percent stake, the government is the single largest shareholder in British Telecom. It is expected to sell that stake to the

public in a share offering late next year. The government has said it will consider allowing greater competition against British Telecom in the next few years. But analysts said that a limited number of telecommunications or electronic firms would be willing to make the investment needed.

Bell South, the regional U.S. telephone com-

pany, is mentioned as a candidate, as is GEC PLC, the British electronics company. British Telecom faces competition on inter-national and domestic long-distance calls from its only licensed domestic rival, Mercury Communications Ltd., a subsidiary of Cable & Wordess PLC. So far. Mercany has not entered the local call market, which analysts say would require an investment exceeding £400 million.

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Società per Azioni

Corporate Offices: 25, via Marenco, Turin, Italy.

Notice of shareholders'

general meeting

firm to take advantage of proposals mestic bond market. to allow eventual full ownership by foreign companies. It did not say Capel is present in most major how much it paid for the Dufour stake.

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immediately available.

ing changes last October.

financial centers. It said in February it intended to take an 82.4 per-Separately, a spokesman for the cent stake in the Dutch brokerage Paris Stockbrokers' Association Van Meer, and last month it set up an office in Frankfurt. said that the French state-owned

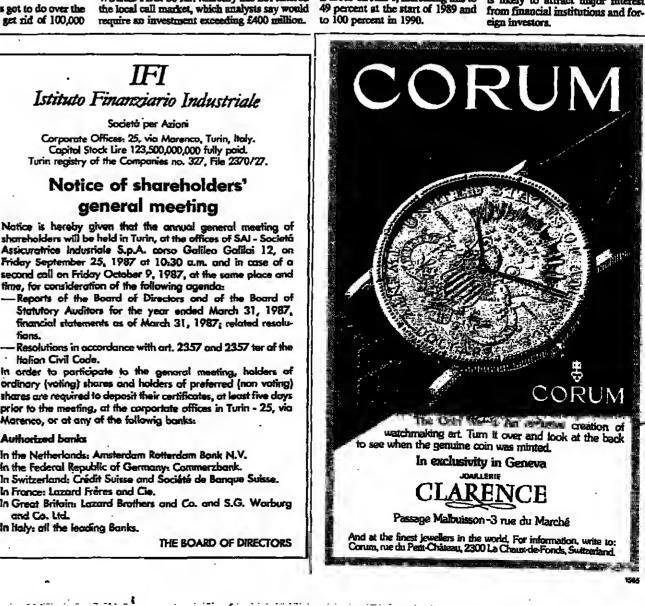
Three big French banks anceived permission to buy a 51 pernounced plans last month to buy Paris brokers. Société Générale, privatized in June, said it would take 66 percent of Delahaye SA, cent stake in Paris stockbroker Du-He said both the association and the French Treasury had approved while Banque Nationale de Paris said it would take a stake in Du the move. No financial details were Bouzet. Credit Lyonnais is expect-Banking sources here and in London said more announcements ed to take a position in Cholet Jean de Dupont Gilles & Co.

were likely from domestic and overseas institutions in the next About half the brokers in Paris weeks in what many have dubbed are seeking a bayer, not only to sunch partners but to gain access "Le Big Bang," a takeoff on the London stock market's wide rangto capital and keep experienced staff, market sources say.

Roger Hornett, head of research Meanwhile, banking sources and at James Capel, said the group plans to take a 30 percent stake in Dufour on Jan. 1, increasing this to brokers say a new Paris share op-tions market which starts Thursday is likely to attract major interest. from financial institutions and for-

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Of Texas in Major Bailout WASHINGTON --- The Federal Deposit Insurance Corp. an-nounced Wednesday a bailout package valued at nearly \$1 billion to rescue First City Bank Corp. of Texas.

U.S. Rescues First City Bank

The package is the second-largest government bailout of a bank after the 1984 rescue of Continental Illinois National Bank & Trust Co. of Chicago. The FDIC, which has been negotiating with bidders for several

weeks, said the new owner of the Houston-based bank is A. Robert

Abboud, former chairman of First Chicago Corp. The assistance will take the form of \$970 million in notes from the FDIC, which will sid in the purchase of the bank's \$1.79 billion in bad Coms.

In addition to the FDIC notes, \$500 million in new private capital will be infused through a stock offering. The FDIC will be guaranteed repayment of at least \$100 million of its notes.

The holding of the old common stockholders will be reduced from the current 100 percent to less than 3 percent. The FDIC chairman, L. William Seidman, said the assistance

package was "the lowest-cost alternative to the FDIC when compared to alternate bids and when compared to the payoff of depositors." He said simply allowing the bank to fail and paying off the depositors could have cost as much as \$1.8 billion.

Weekly net asset value Tokyo Pacific Holdings N.V.

> on September 7, 1987: U.S. \$195.26 Listed on the Amsterdam Stock Exchange :

Information: Pierson, Heidring & Pierson N.V., Herengracht 214, 1016 BS Amsterdam.

Friday September 25, 1987 at 10:30 a.m. and in case of a second call on Friday October 9, 1987, at the same place and time, for consideration of the following agenda: — Reports of the Board of Directors and of the Board of Statutory Auditors for the year ended March 31, 1987, financial statements as of March 31, 1987; related resolutions. Resolutions in accordance with art, 2357 and 2357 ter of the Italian Civil Code. In order to participate to the general meeting, holders of ordinary (voting) shares and holders of preferred (non voting) shares are required to deposit their certificates, at least five days prior to the meeting, at the corportate offices in Turin - 25, via Marenco, or at any of the followig banks: Authorized banks In the Netherlands: Amsterdam Rotterdam Bank N.V. in the Federal Republic of Germany, Commerzbank. In Switzerland: Crédit Suisse and Société de Banque Suisse.

In France: Lazard Frères and Cie. In Great Britain: Lazard Brothers and Co. and S.G. Warburg and Co. Ltd.

In Italy: all the leading Banks.

THE BOARD OF DIRECTORS

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INTERNATIONAL HERALD TRIBUNE, THURSDAY, SEPTEMBER 10, 1987

كلامن الأجهل

LVMH Acquires Cognac Hine

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louis Voition, with a product line distribution networks. Louis Vuitton, with a product line innging from champagne to suit-cases, said Wednesday in had boght a cognac maker, Cognac boght a cognac maker, Cognac boght a cognac splic. An LVMH spokeswoman said the price was about 300 million

competition. French trancs (\$50 million). In

Restore pARIS — The hurary goods ompony LVMH Moët Hennessy-time and Guinness, the June merger that included the Anglo-Irish brewing company, de-cided to merge their international don, Dom Perignon and Verve

tional family-owned companies are francs. Hennessy, the world's leading cognac maker, sold 25 million botpressured by increased foreign

LVMH itself is the product of a

tles last year. Hine, founded in 1763, sold 2.4 million bottles last year, and has a strong market share in Southeast Asia, the LVMH spokeswoman said. Recent changes in France's hru-ry goods industries include Yves Saint-Laurent's sale in July of

LONDON - The Peninsular & included the first contribution to £101.1 million (\$166 million) company's ferry, port and property from £69.8 million a year earlier, and noted that recent acquisitions had begun to contribute to profits. The group's current trading per-

formance was reason to expect simibr results for the entire year, it

Half-year net profit rose 47 per-cent to £71.8 million from £48.8 us and will never be forgotten." million, while revenue surged 66 percent to £1.20 billion from £721.3

The pretax result was above market forecasts of £95 million and the company's shares rose 3 pence to close at 684 pence on the London Stock Exchange

Nokia to Buy

Stake in Horda

HELSINKI - Finland's No-

kia Group said it agreed to bury a majority stake in Sweden's Hords AB, which makes techni-

cally advanced nubber prod-

nets. Financial details were not

Horda's customers include

AB Volvo and Saab-Scania AB,

for which it makes rubber pro-

files, tire-surfacing materials and special materials for cables.

Horda had estimated sales in

1987 of 250 million kronor

(\$39.5 million), a Nokia state-ment said. Nokia had group sales last year of 12 billion.

markts (\$2.75 billion). Through this deal, Nokia

strengthens its position as the

second-largest producer of rub-

ber products in Scandinavia,"

Nokia's president, Simo Vuori-

lehto, said Wednesday. "Nokia.

is now a major supplier for the

· automobile industry.

P&O Pretax Profit Soars 45% With Help From Acquisitions Charles of the Ritz perfumes to Revion Inc. of the United States. P&O said its half-year figures

Vuitton, meanwhile, said last Oriental Steam Navigation Co. from European Ferries Group month it is seeking a majority stake sid Wednesday that pretax profit PLC, acquired last year. Progress in the Givenchy fashion house. It is the first half jumped 45 percent had been made in integrating this already owns the Givenchy perfume line. Guinness said that it would reoperations into the group, it said. tain an association with Hine as P&O also owns Townsend Thor-existing distribution contracts are esen, the company whose Herald of

Free Enterprise sank off the Bel-gian coast in March, killing about 200 people. It said that the tragedy had "cast a long shadow over all of the said that the tragedy had "cast a long shadow over all of the said that the tragedy had "cast a long shadow over all of the said that the tragedy had "cast a long shadow over all of the said that the tragedy had "cast a long shadow over all of the said that the tragedy the said that the tragedy the said the said

had "cast a long shadow over all of us and will never be forgotten." P&O said its service and invest-ment property companies pro-duced steady growth, with the property sector being particularly buoyant in Britain. However, car-reacy movements and the troubled Anstralian economy hurt the ship-LVMHT's profit this year at 1.3 bil-Australian economy hurt the ship-ping and Australian results. LVMH's profit this year at 1.3 bil-lion france.

Canon's Results to Exceed '87 Estimate, Sources Say

TOKYO - Canon Inc.'s parent company profit is likely to reach 20 billion yen (\$141.3 million) in the year ending Dec. 31 if the yeardollar exchange rate remains at its present level, company sources said Wednesday.

This estimate is above the official earnings estimate of 18 billion yen. In 1986, Canon earned 13.18 billion yen on sales of 539.36 billion yen. Sales in 1987 are also expected to exceed an earlier estimate of 550 billion yen, the sources said.

The improved forecast is based on higher domestic and overscas demand for copiers and other office equipment and the effects of

ecent internal restructuring. Buoyant sales of high-priced new model cameras are also expected

to help increase profit, the sources said. In August, the company reported parent company profit of 3.43 billion yen for the first half, down 66 percent from a year earlier, on sales of 253.98 billion yen, down 8.4 percent.

LIFERS:

Less Job Security

(Continued from first finance page) Motor Co. executive, who, late in his career, turned Chrysler Corp. around as chairman

Alositz Financo Julio Albertz 10 Albertz 10 Alfied Irlah 15 Affied Irlah Perp Alla Perp Cap American Express 19 Arab Bha Cart Films Arat Perp Arrow Bills Carr Firle Arrow Bills Carr Firle Arrow Bills Carr Firle Bot Not Levers 97 Bot Di Kossell 97 Bot Di Kossell 97 Bot Di Kossell 97 Bot Di Kossell 97 Bills Bothen Di Kett Bills Bothen Of Bill Anathrow I Bill I and Bill I Bill I and Bill specifically sought someons over 45 - for a golf club secretary and a clerk for Salisbury Cathedral.

"The most difficult people for as to help are those in their mid-50s, who have spent their entire careers with one company, and all their experiences are abroad." said Pau-Bbi Lat 17 Be Indonus: 97 New Vice 97(Cas) Star Nev 16 Be Indonus: 93 (Cas) line Hyde, of Pauline Hyde & Associates, the London-based placeeach. Its payment for the 90 per- ment company in London. "A one-Bos IF (Cas) company person has to prove to a The BAR Are Parts Are Parts Are BAY Are Souther Parts A Arctions Parts Arctions V Arctions Collection Arctions Are Arctions A new employer that he is adaptable to a new corporate environment." But there are other views. "On the whole a top executive who has had experience working in two mafor corporate environments rather than one over 20 years, is a more experienced individual," said Da-vid Norman, of Norman Broad-Newmont shares rose \$1.375 to bent International, the London And an angle of the second sec the 67-year-old U.S. investment banker, Ian MacGregor, for the No. 1 job at British Steel Corp. Somebody who has worked in one company can be the creature of one corporate environment and it can

be harder for them to move." Now, some managers are choosing varied careers. "I worked for Royal Dutch/Shell which was a very effective bureacracy for 20 years," said Onno Boers, 45, who spent his entire corporate career there until two years ago, when he joined BCG, an Amsterdam company that provides companies with interim managers. "A very large bureaucracy cannot always offer the opportunity that people who want to change things all the time (AP, UPI) are looking for."

Bankers Trust Prepares to Issue New Stock

By Robert A. Bennett New York Thmes Service NEW YORK - A battle for

stock market investors by the bigsest U.S. banks has heated up with an announcement by Bankers Trust New York Corp. that it will soon issue \$250 million in stock Its decision Tuesday, the third such move by a major bank in re-cent weeks, angered some big in-vestors and raised questions about whether the stock market could absorb so much new stock in bank

The moves "are ill advised and ill manager for the Windsor Fund, position, analysts think it can go to which owns almost 6 million shares of Citicorp and almost 4 million shares of Bankers Trust.

Bank stocks fared poorly Tuesparticular beating. Its shares lost more than 4 percent of their value. "The market place has reacted negatively to Bankers Trust's offering, not because it's Bankers but decided to take big reserves against because it's the third issue on the their loans to Latin America. heap," said J. Richard Fredericks, a

Bankers Trust apparently is ex-

Coupon Next Bid Asial

other issuers, analysis said.

Because Bankers Trust is in the timed," said John B. Neff, portfolio strongest financial and earnings market with less of a sales effort than Cricorp or Manufacturers Hanover will need.

Page 19

A decision by three major bank day, with Bankers Trust taking a holding companies to issue new equity could put pressure on other leading banks to follow. Raising equity has become a high priority since earlier this year, when banks

Common stockholders' equity as Citicorp amounts to 2.7 percent of its total assets, and at Manufacturers Hanover, to 2.4 percent.

Bankers Trust's equity stands at 4.1 percent of its assets.

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Compiled by Our Staff From Dispatches NEW YORK - Newmont Min- cent it does not now own would be ing Corp. advised its shareholders about \$5.7 billion. Wednesday not to tender their stock to an investor group led by T. Boone Pickens until the gold, cosl and energy company made a rec-

buyout plan. chairman, said the company's tion by Sept. 21.

The investor group, Ivanhoe Partners, began a \$2.66 billion teoder offer Tuesday for 28 million Newmont shares as a step in acquiring a majority stake of 34.6 million shares in the company,

Ivanhoe already owns about 10 percent, or 6.56 million, of New- its investment. mont's 66 million outstanding common shares. Once it gained control, Ivanhoe then would acquire the remaining shares for \$95

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worth about \$600 million.

Newmont Asks Shareholders To Defer Sales to Pickens

"The board of directors encour-

offer until you have had the benefit ommendation on the \$95-a-share of and reflected on the board's recommendations," Mr. Parker said in

board was considering the offer and would make a recommenda-Exchange trading.

plans to sequire more Newmont.

also has cash reserves of \$640 million and marketable securities

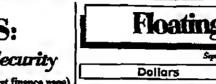
ages you to defer your decision whether to accept or reject the IP

Gordon R. Parker, Newmont's a letter to shareholders.

The company has indicated in the past that it wanted to remain independent. Its biggest shareholder, Consolidated Gold Fields PLC, has said it would take steps "to

prevent anyone from interfering with the success Newmont is achieving" or to otherwise protect Consolidated, with 26.2 percent of Newmont, also has said it has no

stock or take over the company. Analysts said Mr. Pickens wants Newmont primarily for its valuable gold reserves in Nevada. Newmont



holding companies. Citicorp jolted the market last bank stock analyst for Montgommonth when it said it planned to raise \$1 hillion through a new issue. Bankers Trust apparently is o Shortly afterward, Manufacturers pecting some market indigestion Hanover Trust Co. said it would and therefore is rushing to beat the issue \$250 million in new stock. Floating-Rate Notes Middland Para Series) 7%, 21-12 82-17 82-07 Chicorp 97 Gb

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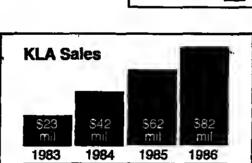
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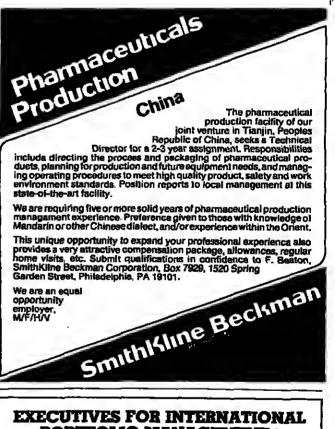
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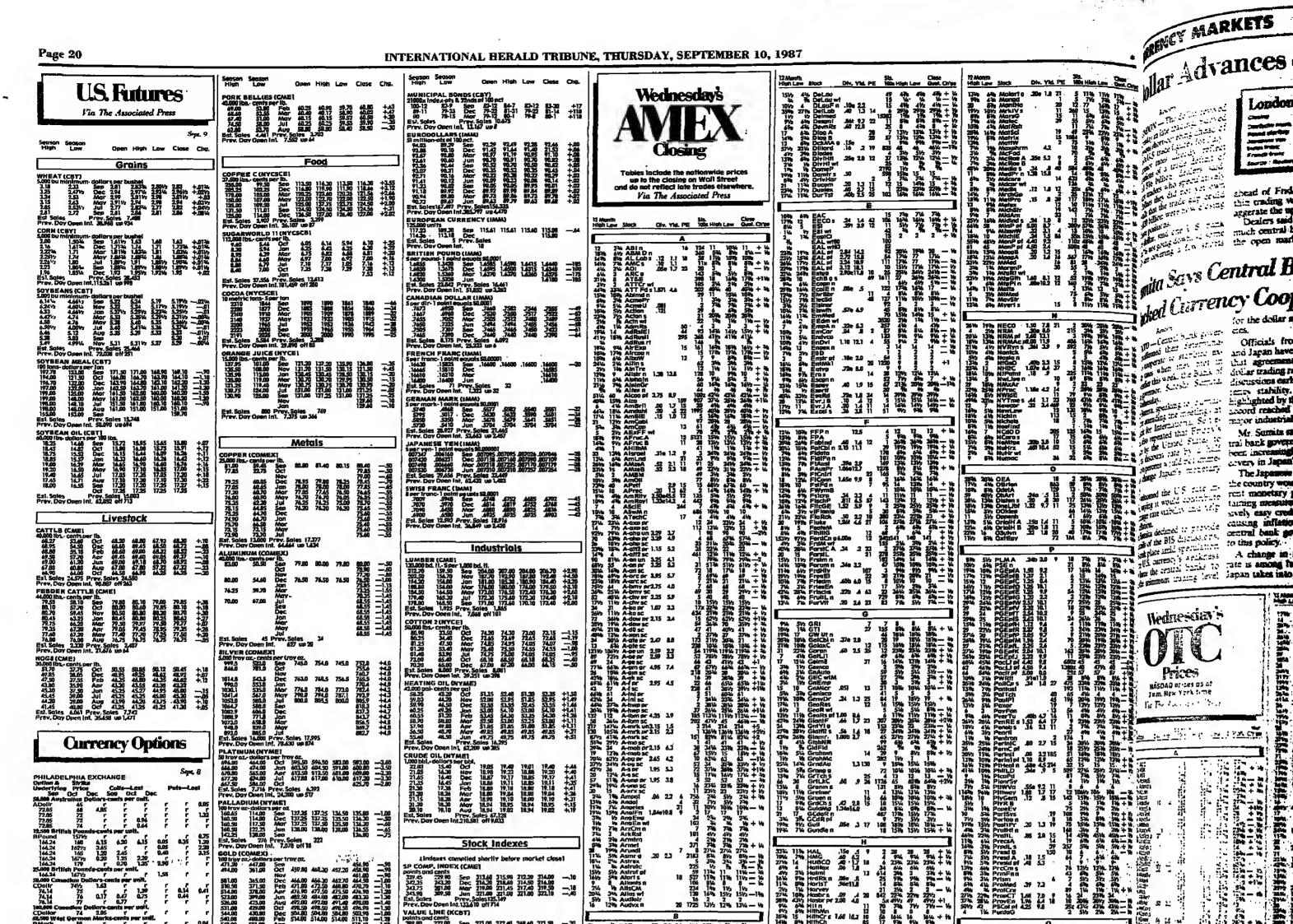
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CURRENCY MARKETS

INTERNATIONAL HERALD TRIBUNE, THURSDAY, SEPTEMBER 10, 1987

GATT: As U.S. Fights to Revive the Free Trade Code, Many Say Reality Has Killed It a member country should treat its

Dollar Advances on Short-Covering

LONDON - The dollar revived wednesday in late trading, buoyed by nervous short-covering ahead of Priday's U.S. trade figures for July. Corrency rates already reflect expectations of a trade deficit of mand \$16 billion, dealers said. But any traders who speculatively sold dollars they did not yet own siter talk that the trade gap could

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reach \$20 billion were now closing out those positions. The dollar, said one U.S. bank

and "is not going down, so some much central bank intervention in

coordinated dollar support by En-London Dollar Rates ropean monetary authorities. In London, the dollar closed Wed Tue, higher at 1.7960 Dentsche marks, after 1.7920 on Tuesday, and only slightly lower at 141.55 yea from 141.65. Destache mor Persoi significa 1,7945 1,4525 14525 1,4535 6,0100 1.7920 1.4608 141,465 Johanne yes Suite franc Pranch franc Just before the close, the dollar

was midging against the psychologically important 1.80 DM level. but eased back.

member are covering a few shorts the open market after Tuesday's tion, the pound often follows the sought.

Sumita Says Central Banks **Backed Currency Cooperation**

Reviters

TOKYO -- Central bank gover- cies. nors reaffirmed their deter nor to cooperate to stabilize ex- and Japan have recently confirmed change rates when they met in Basel earlier this week, the Bank of

Japan governor, Sztoshi Sumita, Japan governor, Sztoshi Sumita, Jaja Wednesday. Mr. Sumita, speaking to journal-just after attending the meetings at the Bank for International Settlemajor industrialized countr ments, also repeated that Friday's decision by the United States to mise its discount rate by a half

point to 6 percent would not immepolic

He welcomed the U.S. rate increase, saying it would contribute to exchange rate stability and help fight inflation. Mr. Sumita declined to provide causing inflation. He said other

any details of the BIS discussions, which took place amid speculation to this policy. that the U.S. currency's weakness

night force the central banks to rate is among factors the Bank of jower the minimum trading level Japan takes into account, he said.

Wednesdava

Prices

NÁSDAQ prices as of

ahead of Friday." He added that thin trading volume tended to exaggerate the upward move, Dealers said they did not notice \$1.6505 from \$1.6600. Because of Britain's oil produc-

trend in crude oil prices. On Wednesday, dealers said, it came under downward pressure during the afternoon amid evidence that the Organization of Petroleum Exporting Countries was each day producing about 3 million barrels of oil above its official quota.

and the second second

OPEC ministers are meeting in Vi-Officials from West Germany enna on Thursday to discuss overproduction. The belief that Britain might be preparing to enter the exchange rate mechanism of the European that agreements on approximate dollar trading ranges emerged from discussions carlier this year on cor-Monetary System was also depress-ing the currency, as membership rency stability. These talks were highlighted by the so-called Louvre

accord reached in February by six id limit its upward potential. COL In New York at midday, the dollar was continuing the European trend, and traded at the day's Mr. Sumita said he had told cen-

tral bank governors that there have been increasingly clear signs of re-After breaching resistance at 1.7950 DM, the dollar was trading covery in Japan's economy. The Japanese central banker said at 1.7975 DM, up from 1.7950 on the country would continue its cur-Thesday. It also edged higher to 141.62 yea from 141.60. In earlier European trading, the rent monetary policy while maintaining measures to prevent exces-sively easy credit conditions from

dollar was fixed roughly unchanged in Frankfurt at 1.7928 DM from 1.7930 on Tuesday, and central bank governors consented. in Paris at 5.9995, just down from A change in the U.S. discount 6.0005. In Zurich, the dollar closed lower

at 1,4840 Swiss francs, after 1.4857. procedure.

(Configued from first finance page) took two years to get a GATT pan-el ruling, which indeed found in favor of the Americans.

The community, exercising its veto rights under the GATT system, then blocked adoption of the panel report, and spent the next four years in on-and-off negotia-tions with the United States that also involved a separate dispute over citrus products. During this period European pasta imports to the United States nearly tripled. The British pound slipped The case was partly settled earlier against the U.S. currency, to this month, almost six years after it this month, almost six years after it. began, for a fraction of what the American negotiators originally

To some extent, these problems are aggravated by the schizophrenic nature of GATT itself. Part organization and part treaty, GATT is the remnant of what postwar U.S. policymakers had envisioned as something called the International Trade Organization, a body that would regulate trade relations and encourage trade liberalization.

Congress never ratified the ITO charter, so the elements in it dealapparently an uncon paiched together as the basis of the bureaucracy, is officially known as market trading order its founders General Agreement. The GATT FOGS, for Functioning of the take credit for having established. Instead there are a secretaring with commercial policy were iat in Geneva that now employs about 300 people.

"There is no institution in the world that tries to deal with made policy the way the International resucratic body, represented at the Monetary Fund deals with finan- official level rather than the miniscial policy," said Julius L. Katz, a terial level, and we would like to retired State Department official have a ministerial-level steering and long-time trade negotiator, recountries' obligations. Mr. Katz now heads a group of

international officials charged with strengthening GATT's policy role through the talks and with revenup-ing GATT's dispute settlement

have a ministerial-level steering group. The world's finance minisferring to the IMF's authority to ters meet several times a year coordinate and enforce member through the IMF and various subgroups, but they look at economic

policy. Trade policy is always the But Mr. Choate and Mr.

tionism would also be a global event," said Willy De Clerog,

who is in Japan for trade talks.

De Clercq Likens Disputes To Protectionism of 1930s Mr. De Clercq said that the MOUNT FUIL, Japan - Curprotectionist mood in the U.S. Congress could trigger disaster. "If in the U.S. the camp of rent protectionist pressures are potentially as dangerous as a wave of restrictive trade laws trigger-happy protectionists suc-that contributed to the start of coad in pushing through the drawork of residual the law ing an apply protections sub-that contributed to the start of ceed in pushing through the dra-World War II, the European contan measures they are clam-Community's external affairs oring for, then quite obviously commissioner said Wednesday. such measures would fall most "Let me assure you that the fallout from a wave of protec-

heavily on Japan," he said. An even bigger wave of Japa-nese exports would then descend on the EC, he said, increasing protectionist sentiment there, But Shizuma Kojima, Japan's

"Do not forget: Protectionism and unemployment, which went vice minister for international trade and industry, said that the hand in hand during the 1930s, contributed substantially to the trade disputes ultimately could destabilization of Europe, and to STOVE COnstructive. the outbreak of the war," he said. "Some have likened this to a tional trade can be removed."

ing wisdom that the agreement, even in its heyday, ever really ap-proached the evenhanded, free-ground that the Soviet trading sys-The reform panel, in what was but. ickedly apt, parody of the GATT

"What we are trying to do is give States, because of its dominant eco-GATT more the character of a functioning trade organization." Mr. Katz said. "It has been a bunomic role, was able to promote loyalty and commitment to the inmal trading rules by offering other countries access to the Incrative American market.

Mr. Prestowitz said that the U.S. motivation was also political: Washington nudged or permitted countries with different economic systems to enter GATT so it could trumpet the Western alliance and the benefits of free trade.

The politics have sometimes made open to the world without confusing. For example, OVER opening the world market to us." Prestowitz say that the problem is Hungary, Poland and Romania are too serious to be righted by any inkering. Both dispute the prevail-is awaiting admission. But the Sovi-

VORT.

war," he said. "I do not agree because war is destructive, while trade friction can be constructive as long as the main blocks to a belanced expansion of interna-

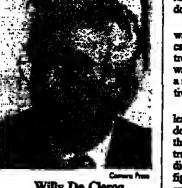
tem is incompatible with GATT. body.

In the latest twist, however, the U.S. State Department is pushing Moscow's application to join a texthing tile agreement administered by GATT in hopes of creating a better atmosphere for arms talks later this

If the politics have been confusing, the practical results have been disastrous, according to critics. "We engage in the charade," Mr. Prestowitz said, "that all GATT members share the same goals and tion and die," beliefs. And what that has meant is that the American market was

subsidies on its agricultural products, has joined Canada, Argentina and 11 other nations in leading a fight within the GATT to halt all agricultural mbsidies.

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Willy De Clercq

trading partners in a nondiscrimi-natory fashion, a concept known as Most Favored Nation. But that does not rule out trade restrictions.

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"Korea may be restrictive to-ward Canada," he noted, "but it can comply with MFN rules by treating the United States the same way. In other words, under GATT, a restrictive country can be restrictive to everybody."

One of the most pervasive prob-lems in GATT is its inability to deal with the spricultural subsidies that have come to dominate world trade. Cases involving such subsidies have been the source of bitter fights between the United States and the European Community, dramatizing both the flaws in the procedures for settling disputes and some very fundamental differences in the way these two major trading partners view GATT's role of GATT.

"GATT is not a court of law, it is 94 countries with sovereignty," said Sir Roy Denman, a veteran trade negotiator who heads the Washington delegation of the European Commission, the EC's executive

But Mr. Yeutter said that GATT must find a more rapid and decisive way of settling trade disputes if it is to survive. "The EC always wants GATT to be a political body, never a binding court," he said. "Two been telling them that we don't have 10 to 12 years to reach a

sus on disputes, that we will be perceived by the businessmen of the world as a farce and that GATT will lose its credibility as an institu-

Anstralia, which has no export

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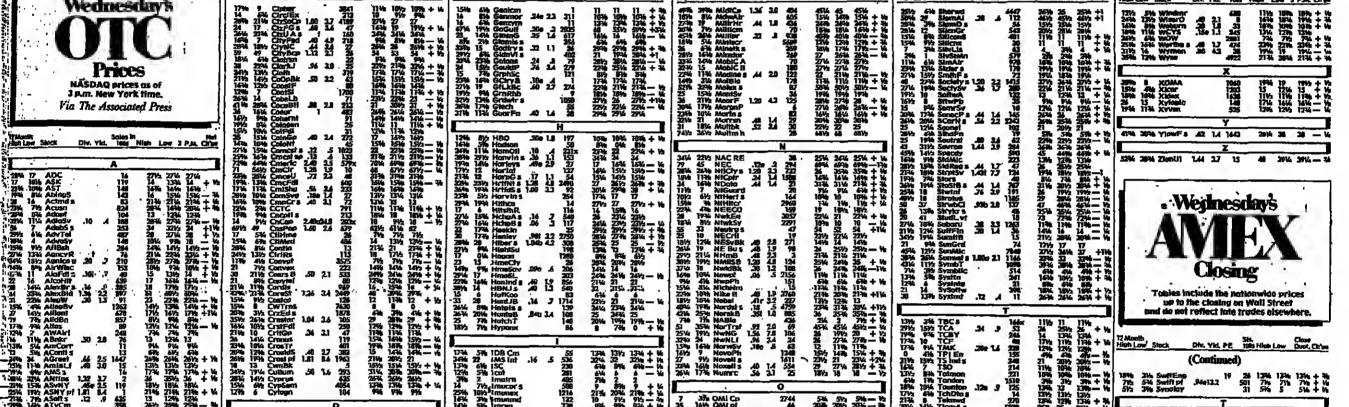
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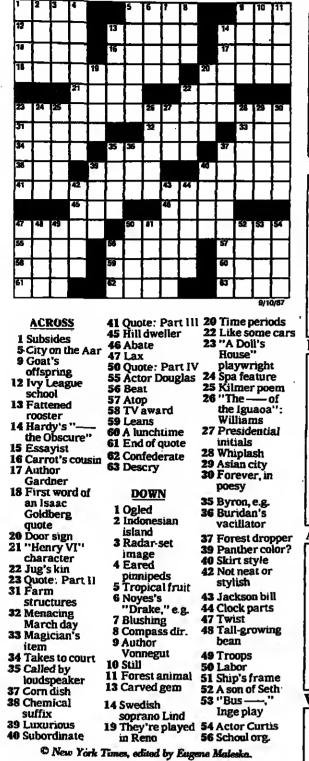
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INTERNATIONAL HERALD TRIBUNE, THURSDAY, SEPTEMBER 10, 1987



DENNIS THE MENACE





BOOKS

MICHAEL: A Novel

By Joseph Goebbels. Translated from the German by Joachim Neugroschel. 131 pages. Paperback. \$6.95. Amok Press, P.O. Box 51, Cooper Station, New York, N.Y. 10276.

Reviewed by John Gross

I N 1921, at the age of 24, Joseph Goebbels received a doctorate in literature from the University of Heidelberg. His parents, who had originally hoped he would be a priest, now assumed that he would take up teaching; but the only thing he wanted to be was a writer. Living at home, he poured out plays, poems, articles and fiction, and his work began making the rounds of publishers and editors.

Apart from a few newspaper pieces, every-thing was rejected, but by 1929 he was well enough known for a Nazi publishing house to issue a short novel he had written six years earlier, "Michael: Pages From a German Destiny." Familiar to his biographers, this has now been translated into English for the first time under the more modest title of "Michael."

The young man who gives his name to the story has been a soldier on the Eastern Front in World War I. He returns full of ardent but imfocused revolutionary yearnings; at college, he fails in love with a girl called Hertha Holk -always referred to by her full name - and is influenced by a half-mystical, half-radical Russian student called Ivan Vienurovsky.

All three go to live in the artists' quarter of Munich, where Michael struggles to write a verse drama about Christ. (Goebbels himself wrote an early play about Judas Iscariot.) Eventually Hertha leaves him — she finds him too tormented, too full of disquiet. He gives up his studies to become a miner, hoping to merge himself with fellow workers. At first they are suspicious, and as they come to accept him he is killed in an accident.

The novel takes the form of a diary, and large parts of it may well have been adapted

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from Goebbels's own diary. Michael's sonl-searchings are set down in a grandiose and high-flown manner, and the writing three of out proceeds by rhapsordie for

Roton Cirit Even 925 Many entire paragraphs are no longer than this.

the section of the se Or are even as short as this. From the reader's point of view, this technique has its advantages. What might have been indigestible laid out in solid slabs, be-Ist time open strenger stand this year. A wear and this year. A wear and ba " suess that's what been indigestible law out in sonn stabs, be-comes comparatively easy to absorb; and "Mi-chael" in fact punches its points home some-what more effectively than accounts of it had led me to expect. But turgid is turgid, even in 10 1464 "Isuess int: s what both to get older." said it who lost her server 2: it who lost her server 2: it who has her server you is a the final server you is a the final server you is a me bad days. I fest a small doses, and for the most part the book remains an adolescent daydream. Its real interest — which is considerable — lies in what it reveals about the author, and about the emer-gent Nazi mentality in general.

an bare any the second time in 50 any make the second and bin to make the second and c just to make the second and c ju There are only three short passages that embody what might be called quintessential Nazism. In two of them, Michael goes into raptures over an unnamed Führer-figure with eyes "like flaming rays"; in the third, he deliv-ers a raging anti-Semitic harangne. the pressure ca." said

It is impossible to prove beyond doubt that these passages were added when "Michael" was published in 1929, but everything points to them being interpolations. When he wrote the book, Goebbels had not yet met Hiller, and he gave no particular sign of developing into an anti Scruite, certainly not a which down

h Irvin Moletsky anti-Semite, certainly not a rabid one. Much of the political talk in "Michael" is extremely nebulous — an all-encompassing The Form Times Some MINGTON - Tar Mundal League Players Ascall for national regeneration and the smashin of outworn institutions. But there are a few clear-cut themes, above all the conviction that "the revolution of the twentieth century" is one in which "labor is marching out against mon-"Bourgeois" is a dirty word, and though ey." "Bourgeois" is a dirty word, and drouge Michael rejects Marxism, he shows reluctant admiration for Lenin.

In large measure, however, what it portrays is not so much a set of beliefs as the will to believe. For all his stridency, you feel that the hero is thrashing around, clawing the air. Per-

hero is thrashing around, clawing the air. Per-haps the truest word he says is: "I want to become a man! I want to have a profile." Goebbels succeeds in solving the problem only by grafting another man's profile onto what plainly starts out as a self-portrait, how-were idealized and indistinct. Michael's experi-ences as a miner are inspired by those of the close friend to whom the novel is dedicated --Riehard Flisges, an anarchist and pacifist who had introduced Goebbels to the writings of Dostoyevsky and Marx, and who lost his life in Dostoyevsky and Marx, and who lost his life in the players by the leagues a mining accident in 1923. (Other aspects of Flisges, or of Goebbels's feelings about him, are reflected in Vienurovsky.) What would have happened if "Michael"

ajas to surrender. had been accepted by one of the publishers to whom it was originally submitted? If only Goebbels could have become a mere author! and the unica's detailed and the "givebacks" would His real talents, alas, lay elsewhere. d Donlan, the negotiator for

John Gross is on the staff of The New York This out unexpected. It con-

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BASEBALL trol when West ruffed and re-turned the spade queen. Broth-er Lucius ruffed, ruffed a low diamond with the heart king unlow to only a first brase and led to his heart jack. This drew the last frumn, and three

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McNeil Ousts Evert; Graf and Edberg Win The Amociated Press NEW YORK -Chris Evert was moset by Lori McNeil in the quar-

failed to make the semifinals.

so flat out there."

biodon in 1983.

By Irvin Molocsky

New York Times Service WASHINGTON - The Na-

tional Football League Players As-sociation voted late Tuesday to go

on strike after the second game of

the senson if a contract were not agreed to by then. That would put

the beginning of the strike at the conclusion of the Sept. 21 Monday

night game between the New York

but to set a strike date," said Gene Upshaw, the executive director of

the players' union. Representatives

from all 28 teams were here Tuesday and, Upshaw said, unanimous-

ly favored a strike if a contract

could not be concluded. The vote

for a deadline after the second

game, Upshaw said, was 24 to 4. -

sented to the players by the league's

management committee on Monday represented \$45 million in "give-

represented \$45 million in "give-backs" that the team owners wanted

He said the union's detailed

analysis of the "givebacks" would

Jack Donlan, the negotiator for

the owners, said of the strike

threat: "It's not unexpected. It con-

forms to their history. The history

of this union is to put negotiations

in crisis. They've never negotiated

the players to surrender.

he forthcoming.

Upshaw said that an offer pre-

"Management left as no choice

Meanwhile, top-seeded Steffi terfinals of the U.S. Open tennis Graf of West Germany defeated championships Wednesday, the first time in 17 years that Evert has

No. 5 Pan Shriver of the United States, No 5, 6-4, 6-3. And second-seeded Stefan Edberg and No. 3 Mats Wilander advanced to the Evert, a six-time open winner and seeded third this year, bowed men's quarterfinals by completing W6-3, 2-6, 6-4. "I gness that's what actories over nonseeds.

happens when you get older," said Event, 32, who lost her service all Edberg beat fellow Swede Jonas Svensson, 6-2, 7-6 (10-8), 6-3, and five times in the final set. "You Wilander beat American Ken have a few more bad days. ... I felt Flach, 6-3, 6-3, 7-6 (7-4). Both matches had been suspended by It was only the second time in 50 min on Tuesday - whose only grand slam tournaments that Evert had failed to make the semis and completed match saw Helena Sukova, seeded sixth, defeat No.9 the first since she lost to Kathy Jordan in the third round at Wim-Claudia Kohde-Kilsch of West Edberg said. "It was very difficult Germany, 6-1, 6-3, in a women's quarterfinal, Wednesday's other terday." Said Wilander: "Today I

NFL Players Set Strike Deadline

N . . .

what their strike agenda is, what is the signing team in that example to their bargaining agenda?" a single second-round draft choice. But Donlan did not rule out the The union has rejected that, calling for the signing of free agents with-

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Gene Upshaw: "No choice."

ment without a strike, saying be hoped to resume negotiations on

Friday. "I anticipate no great delay

pired Aug. 31, was reached after a

-day strike in 1982.

The current contract, which ex-

ing meetings," he said.

"I kept the pressure on," said women's quarters pitted second- felt like a completely new match.

McNeil, 24. "I kept coming in - seeded Martina Navratilova You had to forget about the two against No. 8 Gabriela Sabatini of sets yesterday. I think he played Argentina; the winner will meet better today than I did."-

Sukova Sukova, who lost in last year's In the men's quarterfinals, Ed-berg will face the winner of final to Navratilova, was anxious to get in her match with Kohde-Wednesday's Andrei Chemokov-Kilsch, an upset winner over No. 4 Ramesh Krishnan meeting, Wi-Hana Mandikova on Monday. lander's next opponent will be the survivor of the match between Sukova came to the open in a shump. After surprising Navrati-lova in the finals of the Eastbourne No. 5 Miroslav Mecir and Anstra-Han Mark Woodforde, grass court tournament that serves as a Wimbledon warmup, she lost In two quarterfinal matchups

1997 - N.S. (K<u>.</u>

Wednesday, No. 6 Jimmy Comors to Shriver in the quarterfinals at Wimbledon. was pitted against No. 13 Brad Gilbert and top-seeded Ivan Lendl was to meet No. 8 John McEnroe.

a player who has declared himself a

free agent. Currently the cost to the

signing team is keyed to the play-er's salary. If a player with three

years' experience and earning \$220,000 a year, for example, de-clared himself a free agent, the club

signing him would have to surren-

der its first and third draft choices

the following year. The playees' union says that

makes the cost to the new team so

onerous that the signing of free agents has virtually halted. In their latest offer, the owners

The owners have said they were

willing to liberalize the compensa-

tion system but will not give it up.

increasing team rosters from the

present 45 players to 47. The maion

The owners have also proposed

pointing, it is impossible to de-scribe how it feels," Sukova said. "I "I was a little bit frustrated." started playing badly when I came to this country. I did not do well in Los Angeles or Toronto." because I had such a long day yes-She wasn't thrilled with the state

of her game earlier in this tournsther. A first-round struggle ment ci against Melissa Gumey, which she won 6-7, 6-3, 6-4, only emphasized her troubles. "Last year, I came over here very confident," she said. This year, it was not so. But I feel line extension if the players and

"Wimbledon was very disap-

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INTERNATIONAL HERALD TRIBUNE, THURSDAY, SEPTEMBER 10, 1987

SPORTS

better now owners make some progress toward Kohde-Kilsch never got unan agreement. "Jack and I have to work against the deadline," he said. tracked against the hard-serving Czechoslovak. "It was the toughest "I know the fans are upset," he added. "They want their game. I want it, too." conditions I've ever played in," she said. "Coming out on the court and waiting for hours, and then the The most important issue sepa-varing for hours, and then the rating the two sides is how much planes overhead. And then Helena was acing me all the time." compensation a team should receive from another team that signs



Boy Lada Lori McNeil

without a strike. Now that we know is seeking 49. Upshaw did not rule out a dead-SCOREBOARD Transition Football Tennis Baseball BASEBALL CFL Leaders U.S. Open Results Tuesday's Line Scores. MILWAUKES-Activated Jan Go An Unit of the split (act) - All WAUGES-Activated Jan Gentus, and Livines rull(a) nEct - OALLAND-Sent Rob Nelsin, first Dose-duant and with the large - Mark Disco to complete the tradition attact is in the fact of the fact of the split of TEAM OFFICIEN WOMEN AMERICAN LEAGUE Yds (tesh 4128 . 1073 2736 1025 600 101 200-4 8 8 810 170 000-3 9 8 a (Å) and Hassey / Blyle-M-Banyister, 12-10, L-Chicogr Holens Salares (D. Crechoslovokio. del. Claudia Kabda (Claudi (3), West Germony, 6-1, Ban-7736 1025 2955 3576 1120 2687 wan and Loudner, W-Bannister, Blylavan, 13-11, Sv-Thiasen 19). Colgory Toronto Soutcoto 3193 1143 2458 Lari Methall (11), U.S., dol, Chris Swart (2), 3177 794 2453 3130 1947 9494 U.S., 3-4, 6-2, 6-4. Sheff Gruf (1), Wast Ge Shefter (5), U.S., 6-4, 6-3. HE 100 006-7 15 (1.10 and within Sec. into of Pacific Coast Lesson, THECKS-Received Allow Loynd and Gray Norgan and S.Bradley; Yell, Gordon (5), 679 2499 751 3571 Showart (7), James (9) and Allarman sur, 11-15, L.—Yett, J-7, H.R.-Seatt (22), Ramas (2). MEN 2251 793 1949 Fourth Hound my (2), Sweden

A Prodigy May Face Some Basic Training

By Peter Alfano New York Times Service

The second s

NEW YORK - This has been a disappointing year for Boris Becker, the West German tennis prodigy, not so much because he has won only two of the 13 tournaments he has played, but because Ion Tiniac, his business manager, sees no signs of improvement.

"One week," said Tiniac, a cult figure in tennis with his trademark handlebar mustache and sinister stare. "One week I've been happy with him. He played well in France. I don't care if he goes down to No. 15, as long as he builds his game. But he went to the round of 16 without a tennis game. For two years, he has been relying on sheer power."

Tiriac was referring to the fourth round of the current U.S. Open, when Brad Gilbert registered a five-set comeback victory against Becker. Afterward, Gilbert sheepishly approached Tiriac and offered his hand. They chatted for several minutes, perhaps rehash-ing Monday night's match. Perhaps Tiniac was trying to pick up some clues that will be useful in the future.

Gilbert's triumph was his second against Becker this summer; Tirise does not overlook things like that. He also knows that Becker must re-evaluate his situation and make some changes in his same.

Winning Wimbledon at the age of 17 in 1985 was a remarkable achievement for Becker, as was his victory at Wimbledon the following year. He rode those victories to a No. 2 ranking, and when the 1986 season ended at the Masters last December, Becker thought he was on the verge of overtaking Ivan Lendl as the best player in the world.

success slowed down the overall development of his game. The power he used to his advantage on grass was defused somewhat on hard courts, and certainly on clay. He has become a one-dimensional player who has all the shots, but simply does not use them.

He is only 19, of course, and still No. 4 in the world, hardly reason for panic. It also has been a traumatic year for Becker, who parted



But in some ways Becker's Wimbledon access slowed down the overall development I his game. The power he used to his advan-that Bosch, a surrogate father on the road, was stifling him.

Page 23

Becker did not find a replacement for Bosch, however, and there certainly were times when he could have used some technical help and a shoulder to lean on. Tiriac refuses to coach Recker because both are stubborn and single-minded.

Those qualities helped Becker win Wimbledon and handle the enormous pressure of being a national hero, but they have made him difficult to teach as well. "I don't want him to change on the court." Tiriac said. "I want him to mature."

Although Becker grew up on clay, his style is more suited to faster surfaces. Still, the grass at Wimbledon is the only place where a serve-and-volleyer can win without some ablance of a backcourt game. Even the U.S. Open hardcourts demand that a player be able to hit ground strokes until an oppor-tunity to approach the net presents itself. And because Becker's serve has deserted him this summer, it has made him appear even more vulnerable.

"He needs a baseline game," Tiriac said. "He needs 50 percent of what Lendl has. The serve will come back."

There are three months remaining until the Masters, the last major tournament of the year. What Becker should do is probably take glected in his phenomenal rise.

"It's been too much pressure," he said after his loss to Gilbert. "Most of it is in the head. Becker: The power game isn't enough. But after a while, it will go into your bones."

Expos, 3 Games From Top, Play Their Cards Right

hier Morgon/The A

out the best in the Montreal Expos. Behind the four-hit pitching of

BASEBALL ROUNDUP Bryn Smith and Andy McGaffigan, Montreal defeated St. Louis, 4-1, Tuesday night for its fourth consecntive victory over the Cardinals.

The Expos won for the ninth time in 13 starts against St. Louis this season and moved to three games behind the East Division leaders.

Smith pitched three-hit ball for six innings in winning his first start since Ang. 27. He allowed only one leadoff batter - Jack Clark in the second — to reach base. Clark scored the only Cardinal run on a double play ball by Dan Driessen.

St. Louis, which leads the National League in batting average and

runs scored, has mustered only 12 bits and three runs in the first two encounters of the three-game series. Gamts 6, Astros 4: In Houston, Mike Aldrete's two-out bases-loaded double in the ninth boosted first-

place San Francisco's lead to 51/2 mes over the Astros in the West. Braves 4, Padres 2: In Atlanta, Pete Smith limited San Diego to six hits over 8% innings in his major-

league debut, and Dale Murphy ne wi 134-4 11 2 drove in all four runs.

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Washington Past Service kept in good shape that I'll proba-

BALTIMORE --- Most men lead bly sell when I get back home. Where did this guy come from? ves of quiet desperation. Jeff "I didn't make one cent. And I And the general manager said, lives of quiet desperation. Jeff haven't gotten any singing offers. My dream is to be a professional Wickstrom sings the national anthem at the top of his lungs from coast to coast at his own expense.

Toesday night, he completed one doo't think I will be. Robert Mer-of baseball's oddest odysseys. This nill's not in danger. Still, Twouldn't summer, he's sung the anthem at all wade this summer." 26 major-league parks. He's done it 13 times at home plate in a taxedo. small group of college boys chanted and SuperSonics. A dozen times, he's sung along in "Jeff-rey! Jeff-rey!" when he re-

I called the team and said, "I sing in the Seattle door to do the anthem for a hockey Opera chorus. I know damn well I can do better game, then finished "Tosca" - all the time wearing the tricom hat and than that." They said, "Can you do it tonight?" ' brass sword of Roman project

courage. The fans went wild - like When can you come back?

"Life's short," he said. "I was 40. operatic tenor. But, realistically, I This was a way I could have my don't think I will be. Robert Mer- moment. You have to push. You can't just wait." He pestered anybody and everybody until he'd At Shea Stadium in New York, a sung for the Mariners, Seahawks

One night, he sang for the Mariners at 7:30, drove across town for the second act of "Tosca," ran next

 Terrete
 and write (1)-4 ft 2
 Citove in Bill four runs.
 Mets 5, Phillies 2: In New York, Wets (7), Crim Money 101, Cristion (7), Cristi Wickstrom, a 41-year-old car- other player said a word all sum-penter, lives in Seattle and sings in mer. But one was enough for Wick- Wickstrom's in debt, but h Wickstrom's in debt, but he's derful and asked for my autoes he's spent \$15,000, not to men-tion lost wages, so that he could, just once in his life, do what he'd always dreamed of — stand in front of thousands of people and make them shiver, maybe even cry, when they heard him sing. The almost at the max on both charge cards," he says. "Sold my stocks. Fve got a '74 MG that Fve

nip New York. White Sox 4, Twins 3: In Minneincluding a two-run homer, as Chi- of the season.

apiece as the Brewers snapped Toronto's six-game winning streak. Mariners 7, Indians B: In Cleve-

Sox withstood a four-run ninth to land, Jim Presley and Domingo Ramos hit two-run homers to help

apolis, Gary Redus had three hits, complete game and second shutout (AP. UPI)

VANTAGE POINT/ Thomas Boswell

Rangers 12, Athletics 1: In Oak-land, California, Larry Parrish ho-Red Sox 8, Yankees 6: In Boston, rookie Todd Benzinger hit a three-run home run and the Red mered twice and had five RBIs to back knuckleballer Chadie Hough's three-hitter. Catcher Geno Petralli was charged with four passed balls,

bringing his season total to 31 -two short of the major-league record

Royals 4, Angels 2: In the Ameri- set by J.C. Martin of the Chicago cago handed Minnesota only its MONTREAL --- Playing the top can League, in Anaheim, Califor- White Sox in 1965. "Id say I've got 23d loss in 71 home games. team in their division has brought nia, Mark Gubicza ended a person- a good chance to break it," said Brewers 6, Bino Jays 4: I al six-game losing streak and Petralli. "I'm not going to be able to wankee, Juan Castillo, Robin Yount George Brett drove in three runs, catch all of Charlie's pitches." and B.J. Surbolf drove in two runs

Brewers 6, Bine Jays 4: In Mil-

Mike Morgan register his seventh

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penter, lives in Scattle and sings in the local opera chorus for fun and the odd dollar. In his time, he says he has been a graduate student in history at George Washington Uni-wersity, studied voice for five years, done odd jobs as a knockabout and been an alcoholic. He's not a kook or publicity hound (although you of 'Aida,' right on stage.... Lucki-cross your fingers when a man gets ly for me, she understands the sing-a smill of fame). er's crazy desire to perform." er's crazy desire to perform."

This summer, Wickstrom guess-who doesn't want to step out of graph," said Wickstrom. "I was so the chorus? But how many find a excited I was trembling."

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INTERNATIONAL HERALD TRIBUNE, THURSDAY, SEPTEMBER 10, 1987

not including potential refurbishment of

the vessel, such as removing the equipment

The industry's recent success in the tour-

ist market was spawned, in part, by a past

failure in the business market. The smaller

submarines were frequently used during

the 1970s and early 1980s for deep-sea

exploration by the oil companies. But the

sharp fall in oil prices eliminated the de-

mand for many submarines, so the techni-

cians and engineers who operated the ves-

Dr. Andreas B. Rechnitzer, the vice presi-

dent of Viking Oceanographics, in San

Diego, "companies could get started in the business buying a submarine at 10 cents on

The tourist market is the fastest-growing area for submarine sales, industry officials

said. The submarines take tourists on short.

trips to view undersea life in tropical areas.

ple, began business in 1983 at Grand Cay-

man Island in the Caribbean with one

Research Submersibles Ltd., for exam-

"With the fall in the price of oil," said

sels began searching for new uses.

that fires torpedoes.

the dollar."

ART BUCHWALD

your own."

asked.

"This is it," the father told the boy.

"Where will I find you?" the boy

"Your mother and I will be in the

basement of a federal housing pro-

ject in Baltimore. Don't worry, the

п

A president at one of the Ivy League schools defended the high-

priced costs and said that \$75,000

hardly pays for books and a half-

baked history teacher. "It's wrong," he said, "to use the figure \$75,000 as the cost of a four-

year education, because everybody

will expect one for that. We have a

"That would be a fair way of

"Parents think we make money

on \$75,000 mition. There is no way

we can get in the black by filling our classrooms," the president said.

We don't even make a profit on

"What do you make money on?"

"Towing students' cars away. If

"When they are gone you're on

The \$75,000 Diploma WASHINGTON --- Word father gave the young man his cuff from the old alma mater is links, tie clasp and gold watch.

that the price of private education is going up faster than the U.S. national debt. A recent College Board survey revealed that the price of a diploma at one of the more expensive schools is now \$75.000. which does not include gas, oil or ski trips during the school break.

move has nothing to do with your Can parents afford to send a kid tuition. We always planned to do it to college for that way."

\$75,000 and still find happiness' The answer is most people can't afford to 2/4 send them for half of that. And yet for some reason the older generation continues to do it.

Thanks to their Buchwald different plan at our school. We insist that parents throw everything they have in our great rotunda and allow the school to take what it own sacrifice, parents are making the payments and their children are growing up in the rich academic needs." environment everyone has told them they are entitled to. doing it," I said.

In order to get a better picture of what exactly is going on I talked to those involved in the tuition struggle to see how they feit about it.

One student at Georgetown University took the news calmly. "Nobody wants to force our parents to I asked. come up with 75 big ones, but if that's the price we young Ameri- it weren't for our police tow-away cans have to pay for a good educa-tion, 1 say it's money well spent. Dad had it easy when he went to college so he never knew the cost of a diploma. Now he's learning the hard way, and he'll he better for it."

The drama concerning heavy tuition is being played out every-where. I saw a father at Johns Hop-kins say farewell to his son at the gate. As he bade him goodbye, the

Malle Film Wins in Venice

director James Ivory.

United Press International VENICE - The French film "Au Revoir, les Enfants," directed by Louis Malle, won the Golden Lion first prize Wednesday at the player want to pay the school any-44th Venice International Film thing?" he asked, Festival. The second prize Silver Lion was shared by Italian director tion. Ermanno Olmi's "Lunga Vita alla Signora" and "Maurice" by British

program we would never have been able to construct a new science building." The final person I spoke to was a football player attending a great Texas university.

Shakespeare.

"How do you feel about a college education costing \$75,000?" 1 asked him "I don't think that's a lot of mon-

ey to pay a linebacker. After all, we have given up a great deal to play football for our school."

"I believe you misread me. The student is expected to pay the school, not the other way around." "Why would a college football thing?" he asked. "Perhaps to get a better educa-

"I'd rather see the \$75,000 go into new shoulder pads, where it belongs.

Latest in Leisure Gear: Submarines

By Kurt Eichenwald New York Times Service TEW YORK — Looking for a used submarine? So are hundreds of other

people. Seaforth Holdings Ltd. found that out when it took out an advertisement in May in The New York Times, with the headline, "Submarine for sale." The British shiprepair company wanted to sell two attack submarines that it had bought from the Royal Navy. The advertisement attracted hundreds of

responses, although the company has not sold the submarines.

"From the response, it would appear that there is quite a large market for leisure submarines," said Peter J. Dunn, the mar-keting and defense director at Seaforth, which is based in Liverpool, England. "There's a fantastic interest in submarines throughout the world and right across America," Dunn said. "There's really a fascination with them, a lot of it from boyhood dreams,"

Seaforth is one of a number of small companies around the world that design, build, refit, operate and lease submarin The size and capabilities of the vessels range from decommissioned military submarines to transparent vessels made of acrylic plastic. The submarines are used by tourist attractions and businesses, as well as foreign navies.

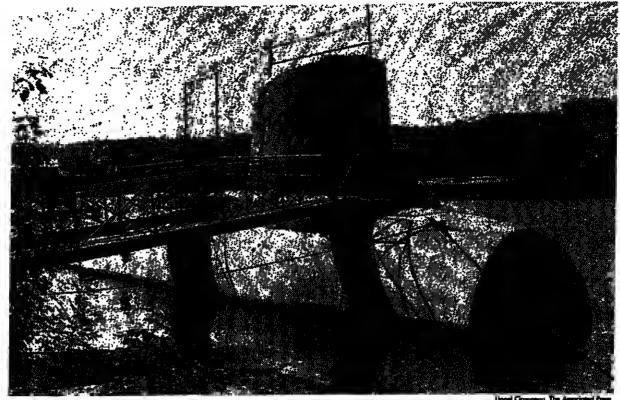
"The competition is fierce," said Andre Galerne, the owner and president of Inter-national Underwater Contractors Inc., in New York, which leases submarines for research purposes

The size of the industry is difficult to gauge. Sales of submarines to tourist attractions and research concerns are the most visible. Yet there is a substantial military market for some companies, although it is veiled in secrecy. Several companies slide from market to market, using similar technology to take tourists beneath Caribbean waters and to provide a navy with a mine-laying weapon. "There are a variety of military applica-

tions for the smaller submarines," said W. Stan Angrove, the general manager of Fluid Energy Ltd., of Inverkeithing, Scotland,

a company that makes submarines. While the companies disclosed little financial information, most of them indicated that the business was profitable. "It gives us bread and butter - and jam," Angrove said.

The cost of leasing or buying submarines varies. For example, a leisure submarine, a smaller vessel for carrying tourists, costs a minimum of \$2 million to \$5 million. A military submarine, such as the ones being man Island in the Caribbean with one sold by Seaforth, costs at least \$11 million, refurbished submarine purchased from an



This retired underwater vessel, moored in the Seine near Paris, now serves as a nightchub.

oil company. The company now makes about 30 dives a week with its four ships. For \$250 each, two persons can take a dive to about 800 feet (245 meters), lasting a little more than an hour. The company also leases its submarines for academic and commercial research.

The Sub Aquatics Development Corp., of Vancouver, British Columbia, was the first company to design and deploy new submarines for public underwater excurtions, starting at Grand Cayman. The company was begun in 1983 by Dennis R. Hurd, who, until that year, did survey inspection for large oil companies.

Sub Aquatics has grown rapidly, with revenue rising from \$1.2 million last year to an expected \$6 million this year. By the end of the year, the company expects to have four submarines operating in various resort locations, including St. Thomas and Hawaii. The submarines carry passengers on hourlong trips to a depth of 150 feet, charging \$48 for a day voyage and \$56 for one at

Despite the growth of the tourist market,

the military market appears to remain hu-crative, although few in the industry are willing to provide details. The smaller companies often deal with countries that are unable to build their own submarines, such as Thailand and Malaysia, industry officials said.

The makers of these submarines include some companies that build similar vessels for tourist attractions. For example, Fluid Energy is working with Seaforth to try to sell to navies, including the Royal Navy and the United States Navy.

Nations that have difficulty obtaining military technology because of legal restrictions have approached almost every company that manufactures submarines, industry officials said. Several companies, including Seaforth, said they had been contracted in the past few months by people who claim to represent the Iranian government.

Some of the companies have also been approached by private arms dealers, but many industry officials said they avoid the dealers out of fear of not getting paid.

PEOPLE Nelson Nursela. Music World Stars Aid Ailing Woody Herman

Big band leader Woody Herman, w32.518 bedridden and broke, has been w32.518 S. Plans saved from eviction from his home out an agreement with Herman's landlord, William Liftle, providing the Hermans pay their \$1,159 monthly reat on time and \$4,600

monthly rent on time and \$4,600 back rent immediately. A jazz radio station said it would pay the \$4,600, and Herman's daughter, In-grid Herman Roese, said that musi-cians such as Frank Shatra, Toay Beamett, Peggy Lee and Stan Getz offered to help with Herman's fa-ture rent and overdue medical bils of more than \$18,000. Little said be had no idea the jazz minician was his tenest Rishing 100 - Secretary of
 science P. Shuim, sing Thursday
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 science of Secretary of Secretary he had no idea the jazz musician was his tenant until he saw the

Brooth period after current information and a second secon an Relations Comparison Mr State a need to mend the season of the contract of the an for the rebels, also known

"Thriller" broke all sales records, the same une of the same u with the first of nine sold-out Japan source a diplomance source a performances. п

A children's choir sang a wel- E sid the aid request come to the Prince and Princess of stends until after the contrast Wales as they arrived Wednesday: set Slot million in U.S. and in Case to help this Name in Caen to help this Normandy not Sept. 30. town honor the French date who ha he face of receased caus Democratic members of the cooquered England. Prince Charles , penoratic members of the and Princess Diana arrived at Carn, since to hold the request until

city hall early in the afternoon for pare process among the Cen-ceremonies honoring the 900th anniversary of the death of William the Smitz refused to sa, when ministration was likely to act. the Conqueror. They were greeted in initiation was likely to act. by French Foreign Minister Jean hamistration was likely to act. Bernard Raimond and local digni-est to Congress before Nev. taries. Danielle Breda, Caen's press i feasing the service and service of the central attache, said Charles and Diana service overtreents for beries, were not the citede for the citede f guests. "We originally invited WE- gatesse for and making trosures ... We originally invited Wit- a wood democratic referras. same first name," she said. "But the British Embassy told us that he is. hand, Mr. Shuliz insisted that

too young for such a trip." the the contras to maintain in military strength would put

met on Nicaragua's governdecline in EMPLOYMENT EMPLOYMENT SecoNTRA, Page 2 United St ANNOUNCEMENTS INTERNATIONAL CLASSIFIED CENERAL POSITIONS WANTED **GENERAL POSITIONS** A WORLD AVAILABLE Call Your Protocol Sand Lassestranty, town and protocol Sand Lass, and with transfer and applications, protocol application by, and a printing poston without the sand a printing poston without transmission of dotter, from the sand start Transmission of dotter, from the sand start Transmission of the sand start Transmis VERSEAS POSITIONS, Hundrude OF JOB REAL ESTATE TO RENT/SHARE REAL ESTATE REAL ESTATE TO RENT/SHARE Application of the state of the REAL ESTATE Toll-Free Number REAL ESTATE EMPLOYMENT TO RENT/SHARE **OPPORTUNITIES** TO RENT/SHARE FOR SALE for the EXECUTIVE PARIS AREA FURNISHED PARIS AREA FURNISHED POSITIONS AVAILABLE HOLLAND HOLLAND PARIS AREA UNFURNISHED It Start of 2d-U. AWAITS YOU DO YOU KNOW THE FAR BAST Sa-curies Moriatel Are you a portfolio manager and proud of your hook record Are you a boan ployee! Are you ready to work hardf Apply in confidence to Jocume Drawsart. INTERNATIONAL DUTCH HOUSING CENTRE B.V. Dekney restok, Voluriuset, 174, Ameterdam, 020-644444 Fox 645354 AT HOME IN PARIS SHORT OR LONG THE Tribure, 2221 Naulty Coder, France Transfor, 220 - Commarce and State and St 16th RARE INSIDE **Embassy Service** CHARMING DOCTOR'S HOME 1930 building, exceptional view on Eff. fel Tower and Sens, facing South, lorge reception, 4 bedrooms, 3 batha, dth floor, balcany, P28,000 + chorgeu. Today Sofan 15 rue Raynouard, Paris 16 or by appointment 47 42 44 44 da H3P 3C7. (built on Dijk) in Klasswa 10 mins from Europeart, 20 mins from Rotectan, 40 mins from Antwerp, 60 mins from Brusels. HERALD TRIBUNE'S TECHNICAL TRANSLATORS, Transla tion company, market leader in hi TODAY'S PAGE 19 8 Ave, de Mensins 75008 Paris PARIS PROMO you ready confidence tion company, morter leader in hi-tech translations, urgently requires En-glish mother tongus translators. Preferobly engineer or degree level for permanent positions in Pers confidence to Jacques Drossaer, Managing Director, Merrill Lynch Copital Marians, 96 Avenue allena, 75116 Paris, **Instant Subscriber Service ITALY** YOUR REAL ESTATE Estate Agent - Property Manager 25 Ave Hoche, 75008 Pans, 45 63 25 60 READ OUR AGENT IN PARIS INTERNATIONAL When in Rome: PALAZZO AL VELABRO -I-A-ile in the dash.

of more than 40 years by the promof more than at years by the prom-ise of help from the music world. Celebrities came together to save Herman from being evicted from the house he lost to an Internal New Aid to Fa Revenue Service auction sale, and the new owner agreed to let the 74. year-old bandleader and his daugh ter remain until at least the end of 1988. Lawyer Kirk Pasick worked

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story in the newspapers."I'm just glad it all got worked out," he said supervise and other and other

Hundreds of screaming Japanese fans greeted singer Michael Jack. son waving gloved hands Wednesday as the reclusive superstar arrived to launch a worldwide concert tour, his first in four years.

Jackson, who celebrated his 29th. birthday on Aug. 29 with the re-lease of "Bad," his first album since the same une he suid the

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